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STATISTICS OF WISCONSIN PUBLIC UTILITIES

1980-1979-1978

ELECTRIC, GAS, TELEPHONE
WATER AND HEATING UTILITIES

PUBLIC SERVICE COMMISSION OF WISCONSIN

Accounts and Finance Division

Bulletin No. 8

November, 1981

STATISTICS OF WISCONSIN PUBLIC UTILITIES

1980-1979-1978

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STATISTICS OF WISCONSIN PUBLIC UTILITIES

This bulletin presents a statistical summary of public utilities operating in Wisconsin during the period 1980-1978 inclusive. In addition, selected data over longer periods are shown in the text or portrayed in the charts. Some Wisconsin utilities have operations outside the State. These operations are generally excluded from the summaries but this was not possible in the case of financial data shown in Tables 1, 2, and 3.

The following table gives an indication of the relative importance of various utility services included in the report.

	Year Ending December 31, 1980		
	Average Number of Customers*#	Operating Revenues*	Net Operating Revenues*
Electric	1,822,762	$1,734,979,167	$262,853,806
Gas	1,039,133	1,186,189,222	50,766,335
Telephone	1,930,953	966,767,596	182,229,838
Water	919,756	114,193,050	11,058,961
Heating	726	8,664,808	969,985
	5,713,330	$4,010,793,843	$507,878,925

* Excludes out-of-state operations.
# Ultimate consumers.

Chart 1 presents a comparison of trends in gross operating revenue since 1971. Gas utility revenues continue to have the greatest rate of growth with an increase of 4.1 times in 10 years. Electric and telephone revenues increased 3.3 and 2.7 times respectively while water revenues rose 1.7 times during the 10-year period. The increases are due to both increased numbers of customers and to higher rates.

Chart 2 shows that since 1971, net operating telephone revenues have risen 2.9 times, electric revenues 2.7 times, water revenues 1.1 times, and gas revenues 1.5 times.

CHART 1
COMPARATIVE TRENDS OF OPERATING REVENUES

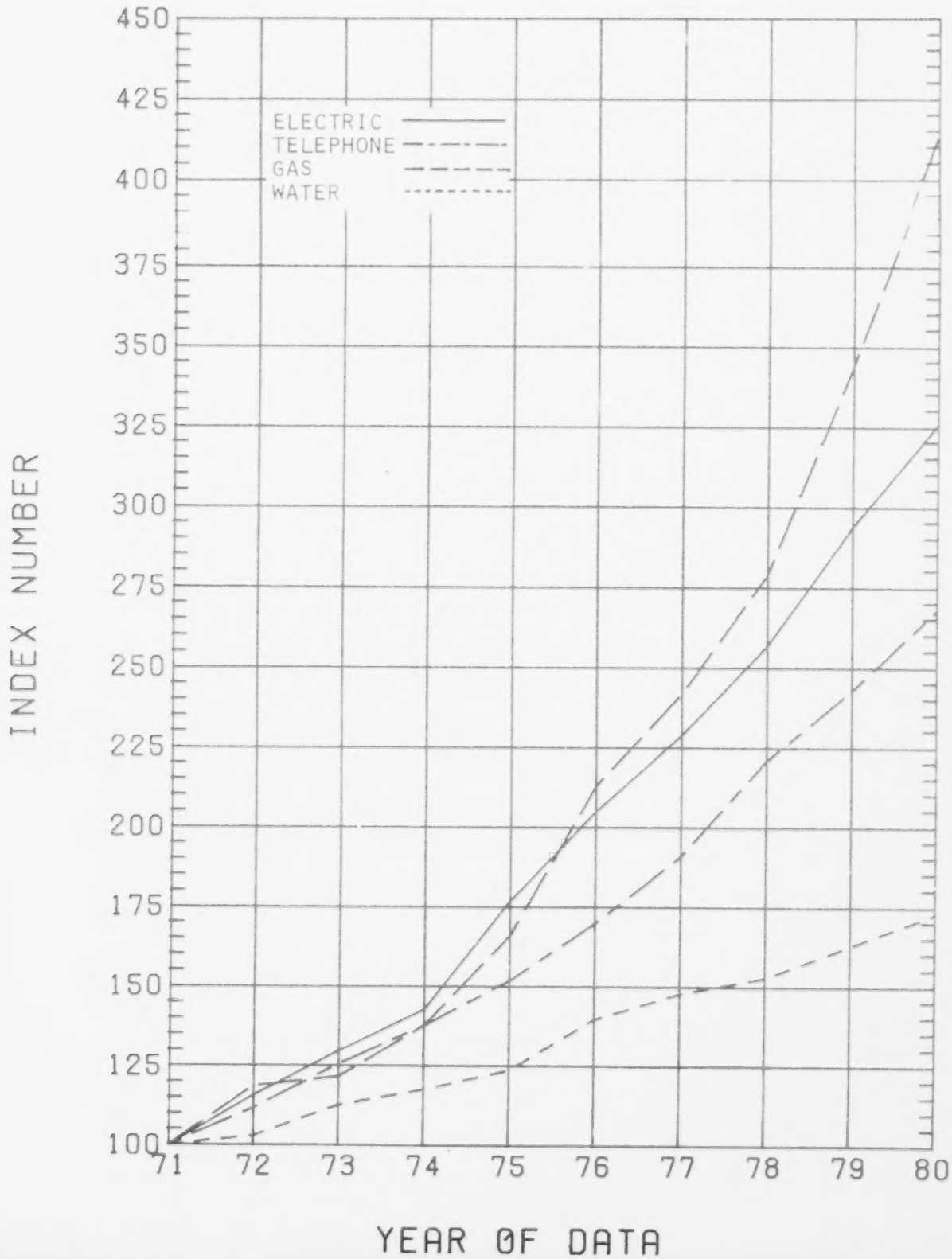
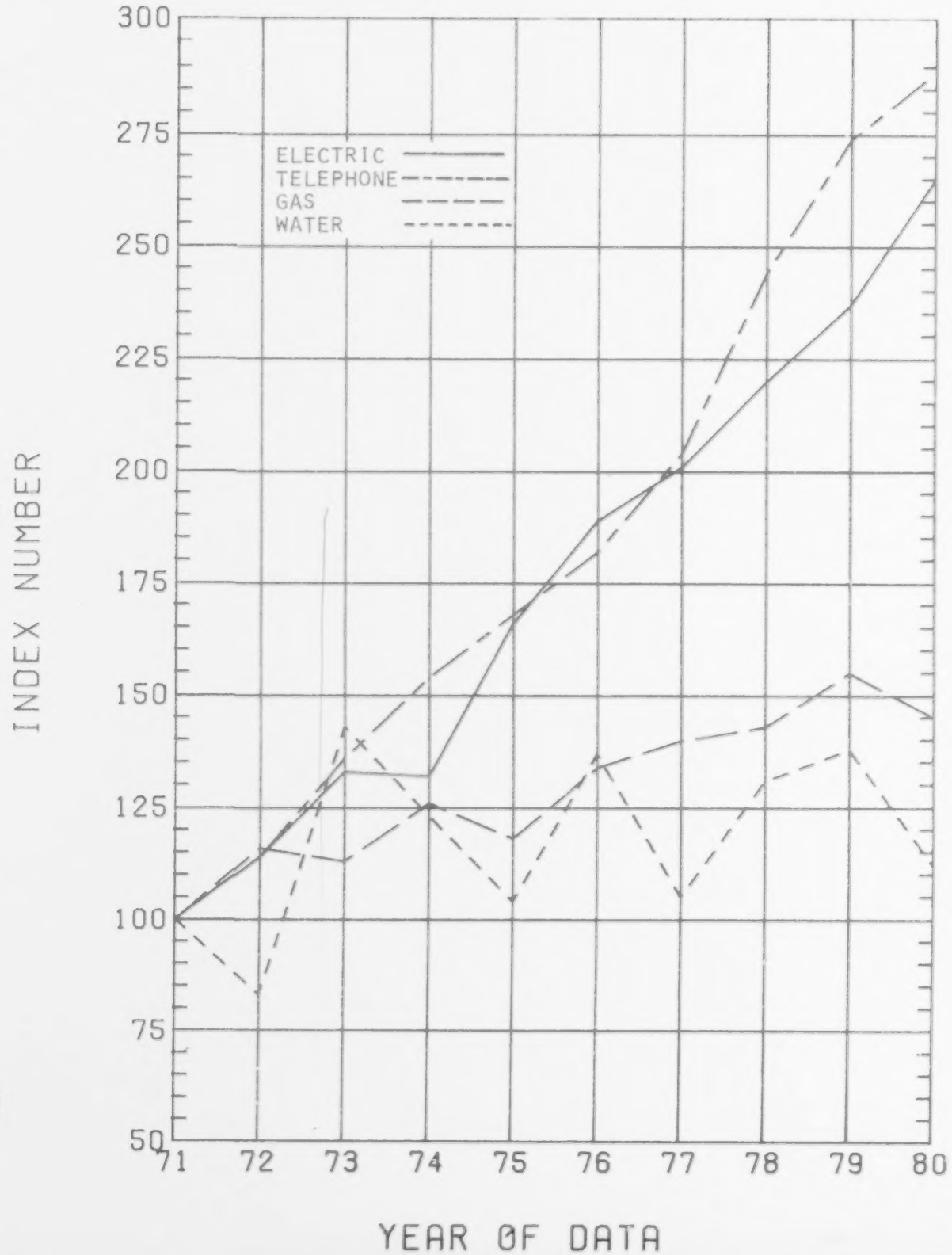


CHART 2
COMPARATIVE TRENDS OF NET OPERATING REVENUES



The number of public utilities operating in the State as of December 31, 1980 is summarized below. These figures include all utilities regardless of size:

	Total	Private	Municipal
Electric	99	14	85
Gas	16	15	1
Telephone	126*	126*	0
Water	542	15	527
Heating	3	2	1
Total	786	172	614

* Includes 2 roadway companies and 15 radio-telephone service companies. Does not include two Illinois based utilities that serve a few customers in Wisconsin.

FINANCIAL STATISTICS

Statistics on plant investment, capitalization and disposition of income are presented in this section of the bulletin. These data necessarily include all operations of Wisconsin utilities, including out-of-state operations of those utilities operating in neighboring states.

A number of municipalities include nonutility sewer operations in their water utility reports. Figures on income and capitalization reflect these operations when reported. It is to be emphasized, however, that sewer coverage presented herein is by no means complete since many municipalities operate their non-utility sewer departemnts independently and do not report those operations.

Utility Plant in Service and Accumulated Provisions for Depreciation

Table 1 presents a summary of utility plant in service and accumulated provisions for depreciation of Wisconsin utilities during the period from 1978 through 1980. Charts 3, 4 and 5 show similar data in graphic form over the past 10 years.

About $9.1 billion are invested in utility plant by Wisconsin utilities. Of this amount, electric plant makes up 46.8% with telephone, water and gas plant amounting to 31.2%, 10.6% and 10.0% respectively. Sewer and heating plant make up another 1.4%.

Electric cooperatives and companies engaged in intrastate transmission of natural gas do not fall under the jurisdiction of the Wisconsin Public Service Commission and therefore, data covering these companies are not included in this study. Electric cooperatives did have gross plant investment in Wisconsin of about $575 million as of December 31, 1980. Gas pipeline companies had about $223.9 million in gross plant as of the same date.

Except for water and sewer service, public utility operations in Wisconsin are predominantly under private management. For example, municipalities own and operate 98% of the total water plant but only 4% of the electric plant, about 0.05% of the gas distribution plant and no telephone plant

As of December 31, 1980, Wisconsin electric utilities had accumulated provisions for depreciation equal to 39% of electric plant in service. Telephone utilities had accumulated 23%, water utilities 20% and gas utilities 36%. The comparable figures in 1971 were 30%, 23%, 19% and 20% respectively.

Charts 3, 4 and 5 show that utility plant in service has increased steadily over the past 10 years. Electric utility plant has increased 110% since 1971. Telephone plant is up 122% while water and gas plant increased 76% and 50% for the period.

Capitalization

Capitalization of public utilities in Wisconsin is summarized in Table 2 and Charts 6 and 7. Total capitalization was about $6,679 millicn in 1980. Of that amount 82% was accounted for by private utilities with the remaining 18% being municipal investment.

Total capitalization was up 9% over 1979, and 77% over the past 10 years. The corresponding figures are 9% and 76% for private utilities and 8% and 81% for municipals. Charts 6 and 7 give graphic representation of these figures.

CHART 3

UTILITY PLANT IN SERVICE AND ACCUMULATED PROVISION FOR DEPRECIATION

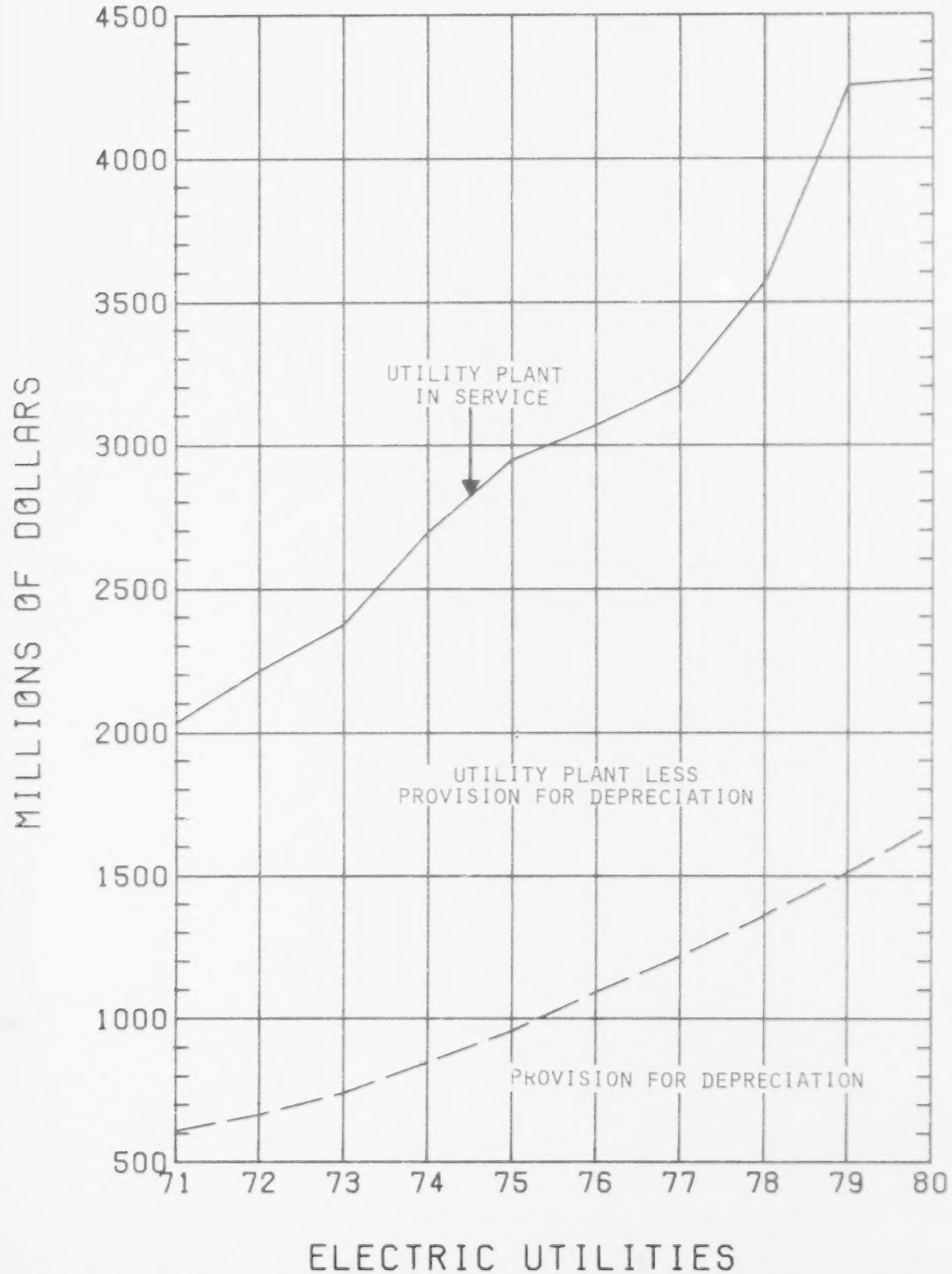


CHART 4
UTILITY PLANT IN SERVICE AND ACCUMULATED PROVISION FOR DEPRECIATION

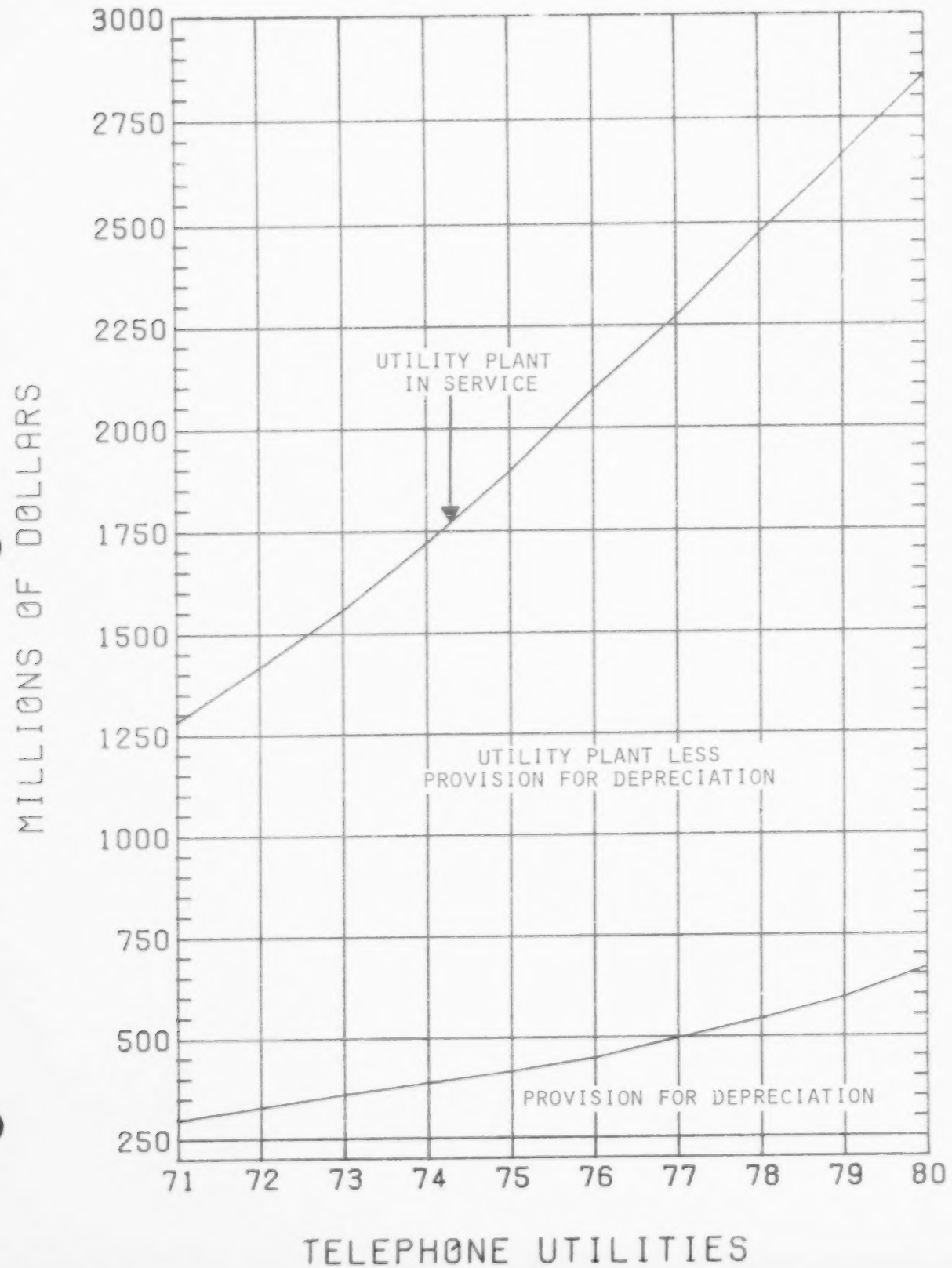
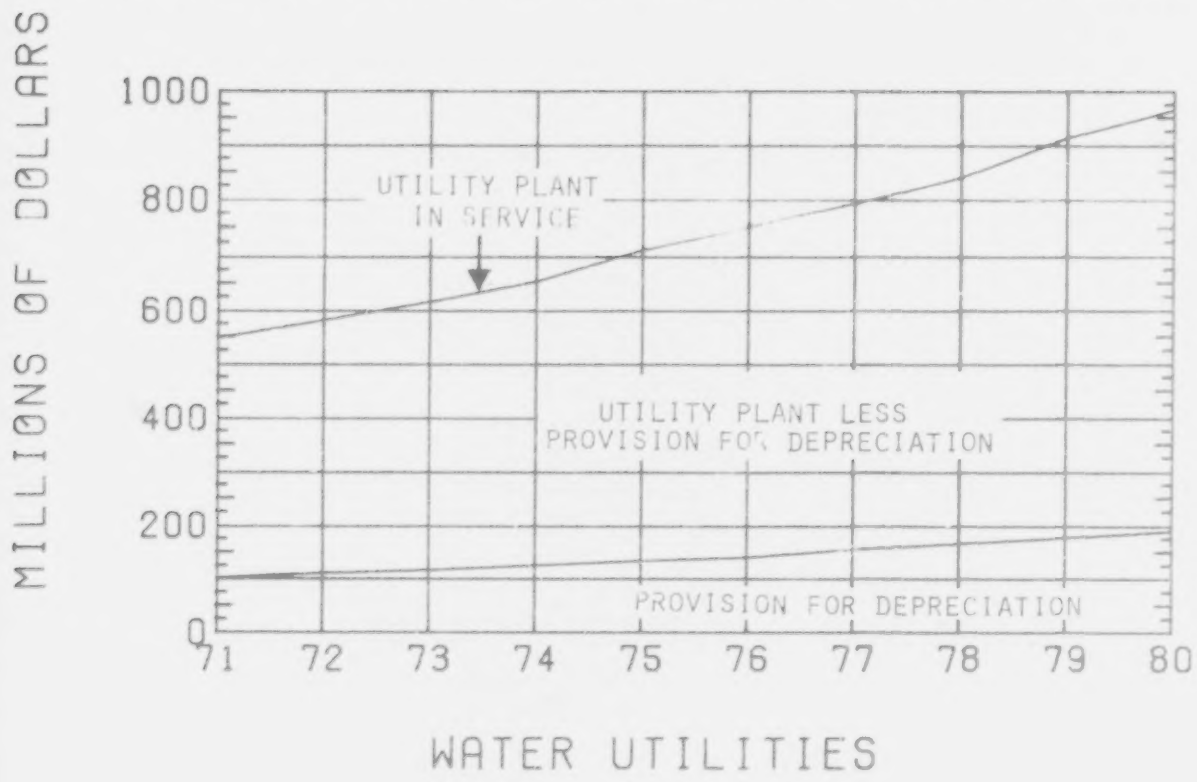
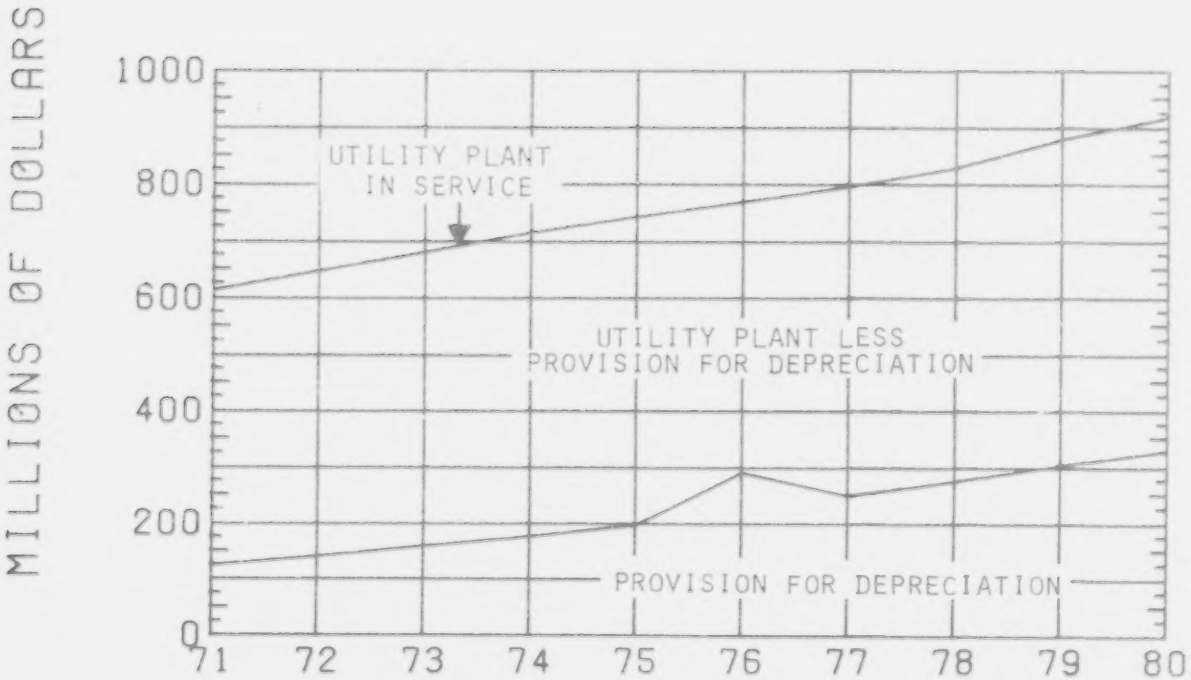


CHART 5

UTILITY PLANT IN SERVICE AND ACCUMULATED PROVISION FOR DEPRECIATION



WATER UTILITIES



GAS UTILITIES

CHART 6

CAPITALIZATION OF PRIVATE UTILITIES OPERATING IN WISCONSIN

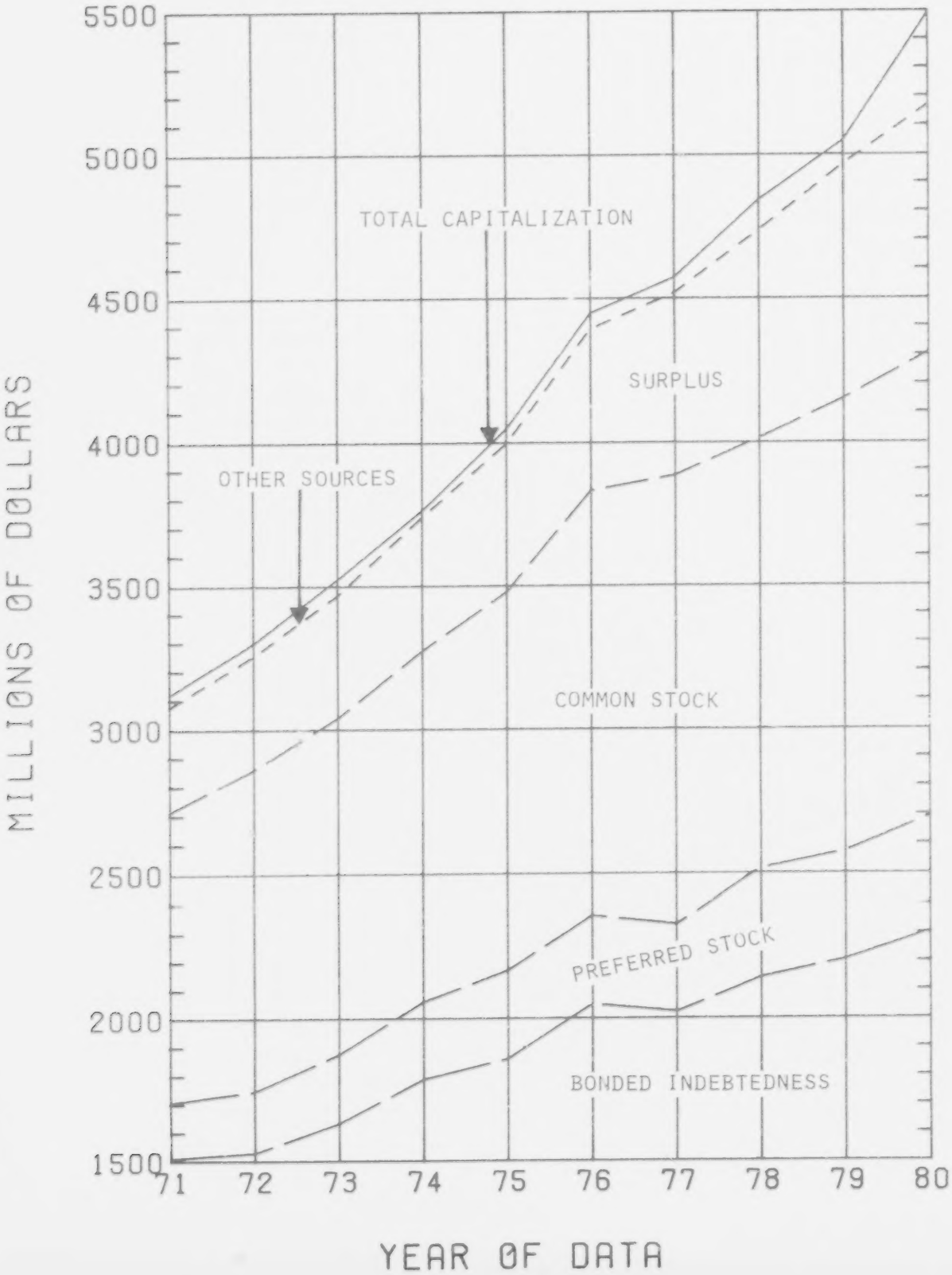


CHART 7

CAPITALIZATION OF MUNICIPAL PUBLIC UTILITIES OPERATING IN WISCONSIN

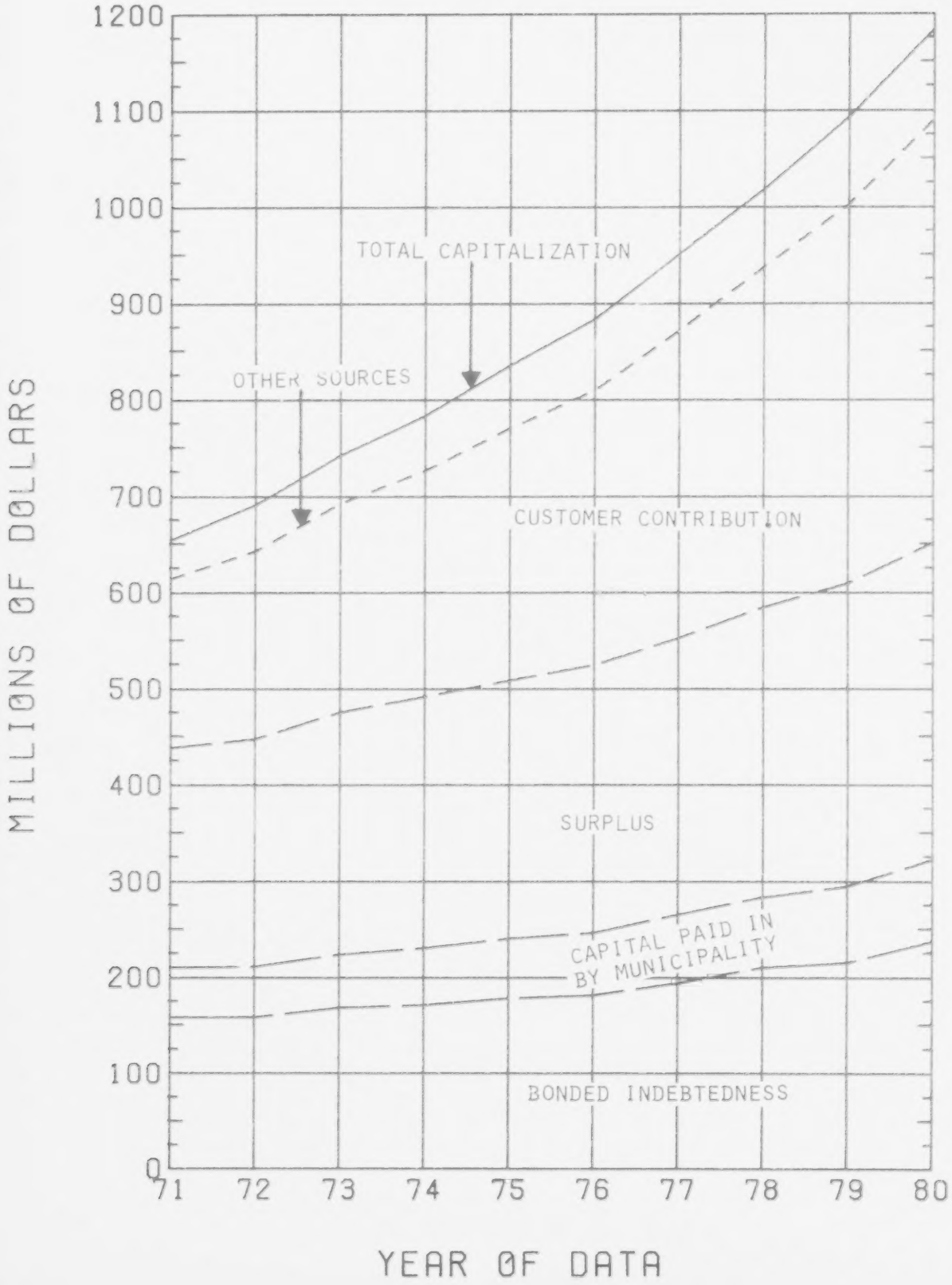


Chart 6 further shows bonds and common stock continue to be the largest source of capital for private utilities. Surplus also contributes a substantial share of total capitalization.

As shown below, Contributions in Aid of Construction is the largest item of municipal utility Capitalization. Surplus and Bonded Debt are next in size. Capital Paid in by Municipalities was only about 7.6% of the total at the end of 1980.

A comparison of the capitalization of private and municipal utilities as of December 31, 1980 is presented below:

	Private Utilities	Municipal Utilities
Bonded Indebtedness	42.0%	20.1%
Common Stock or Capital Paid in by Municipality	29.4	7.2
Preferred Stock	7.1	0.0
Surplus	15.7	27.8
Advances from Affiliates or Municipalities	4.4	7.6
Contributions in Aid of Construction	1.2	37.0
Customer Advances in Aid of Construction	0.2	0.3
Total	100.0%	100.0%

Disposition of Income

The term "gross income" as used here, is a net figure representing total income available to meet interest payments, dividends and similar items. The disposition of gross income is summarized in Table 3 and Charts 8 and 9.

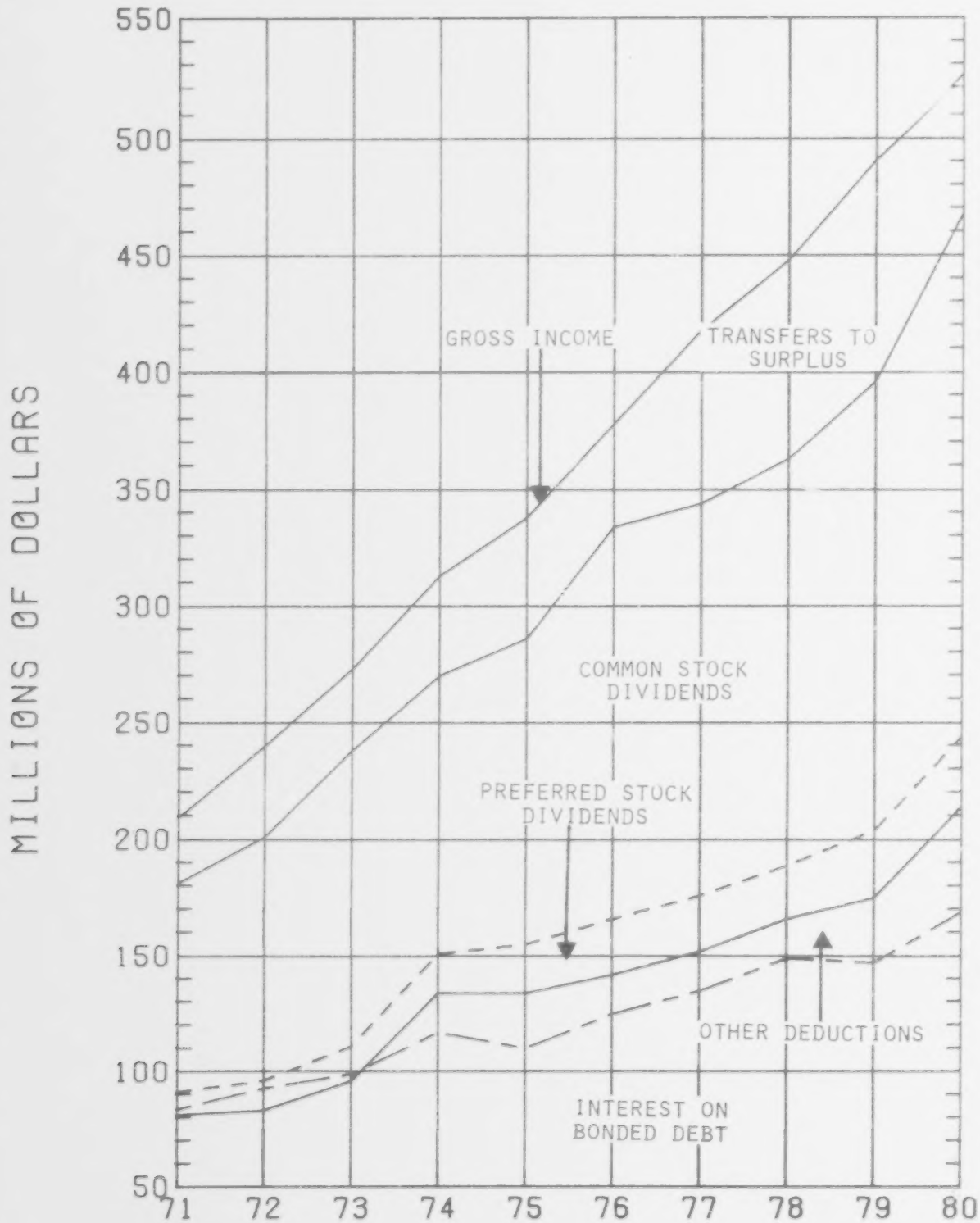
Total gross income of private utilities in Wisconsin totaled $525.7 million in 1980, 7% above the preceding year. Interest and related deductions absorbed $214.3 million, preferred stock dividends $29.6 million, dividends on common stock $224.1 million, and $57.7 million were carried to surplus.

Municipal utilities had $29.3 million in gross income in 1980, up 6% from the preceding year. Interest and related charges amounted to $16.4 million, $1.5 million were appropriated to municipalities, and $11.4 million were carried to surplus.

Payments during 1980 on each class of security or equity, expressed as a percent of average book values at the beginning and close of the year are compared below:

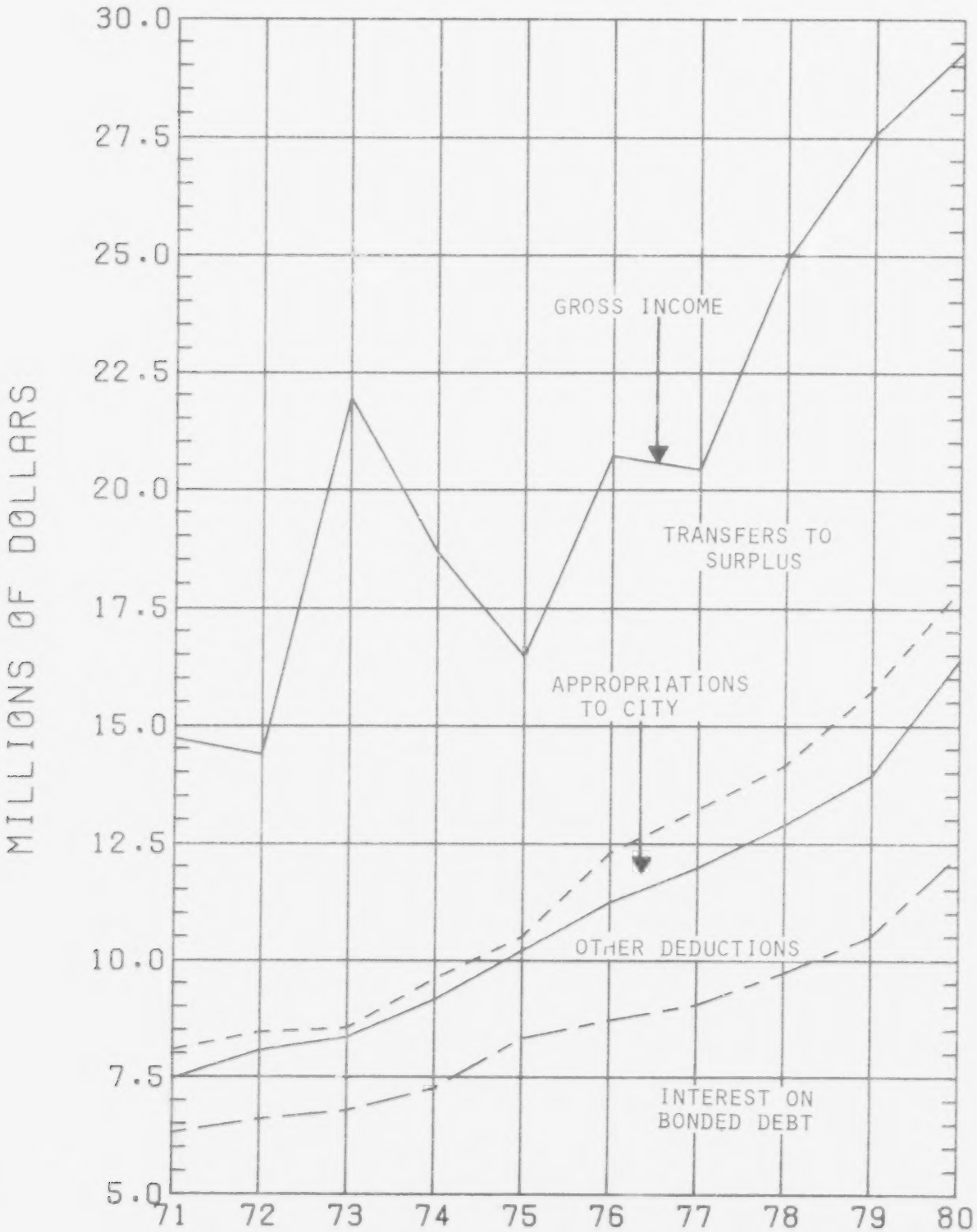
	Private Utilities	Municipal Utilities
Interest on Long-Term Debt Divided by Long-Term Debt	7.33%	5.16%
Preferred Stock Dividends Divided by Preferred Stocks	7.62	0.00
Common Stock Dividends Divided by Common Stock	13.8	0.00
Appropriations to City Divided by Capital Paid in by Municipality	0.0	1.78
Common Stock Dividends Divided by Common Stock Plus Surplus	9.04	0.00
Appropriations to City Divided by Capital Paid in by Municipality Plus Surplus	0.00	0.36

CHART 8 - DISPOSITION OF GROSS INCOME**
PRIVATE PUBLIC UTILITIES OPERATING IN WISCONSIN



**INCOME AVAILIABLE FOR INTEREST AND DIVIDENDS

CHART 9 - DISPOSITION OF GROSS INCOME**
MUNICIPAL PUBLIC UTILITIES OPERATING IN WISCONSIN



**INCOME AVAILIABLE FOR INTEREST AND APPROPRIATIONS TO CITY.

TABLE 1

SUMMARY OF UTILITY PLANT IN SERVICE AND
ACCUMULATED PROVISION FOR DEPRECIATION
PUBLIC UTILITIES OPERATING IN WISCONSIN 1/
1980-1978

	Dec. 31, 1980	Dec. 31, 1979	Dec. 31, 1978
All Utilities			
Utility Plant in Service 2/ 3/			
Electric	$4,275,211,337	$4,254,127,955	$3,567,611,381
Gas	918,789,377	879,876,136	829,937,324
Water	965,635,015	915,212,217	842,024,617
Sewer	112,634,298	110,376,638 4/	139,043,139
Telephone	2,851,685,835	2,662,188,913	2,475,385,526
Heating	18,524,317	17,971,817	17,543,271
Total	$9,142,480,179	$8,839,753,676	$7,871,545,258
Accumulated Provision for Depreciation 2/ 3/			
Electric	$1,678,559,922	$1,513,644,454	$1,362,514,223
Gas	330,834,663	304,607,302	276,393,987
Water	192,100,006	180,006,811	168,558,573
Sewer	18,416,932	18,353,152 4/	21,572,789
Telephone	668,893,772	595,509,847	544,022,550
Heating	8,357,198	7,767,886	7,203,741
Total	$2,897,162,493	$2,619,889,452	$2,380,265,863
Utility Plant Less Provision for Depreciation 2/ 3/			
Electric	$2,596,651,415	$2,740,483,501	$2,205,097,158
Gas	587,954,714	575,268,834	553,543,337
Water	773,535,009	735,205,406	673,466,044
Sewer	94,217,366	92,023,484 4/	117,470,350
Telephone	2,182,792,063	2,066,679,066	1,931,362,976
Heating	10,167,119	10,203,931	10,339,530
Total	$6,245,317,686	$6,219,864,224	$5,491,279,395
Private Utilities			
Utility Plant in Service 2/ 3/			
Electric	$4,083,405,456	$4,069,842,967	$3,398,758,346
Gas	918,305,483	879,432,080	829,495,543

TABLE 1 (Concluded)

SUMMARY OF UTILITY PLANT IN SERVICE AND
ACCUMULATED PROVISION FOR DEPRECIATION
PUBLIC UTILITIES OPERATING IN WISCONSIN 1/
1980-1978

	Dec. 31, 1980	Dec. 31, 1979	Dec. 31, 1978
Private Utilities (Cont.)			
Accumulated Provision for Depreciation 2/ 3/			
Electric	$1,595,667,295	$1,436,356,292	$1,290,420,497
Gas	330,681,857	304,468,228	276,268,544
Water	4,482,381	4,211,221	3,978,477
Sewer	51,486	48,842	46,198
Telephone	668,893,772	595,509,847	544,022,550
Heating	8,302,898	7,714,421	7,152,523
Total	$2,608,079,689	$2,348,308,851	$2,121,888,789
Utility Plant Less Provision For Depreciation 2/ 3/			
Electric	$2,487,738,161	$2,633,486,675	$2,108,337,849
Gas	587,623,626	574,963,852	553,226,999
Water	13,901,026	13,114,640	12,219,664
Sewer	94,411	97,055	99,699
Telephone	2,182,792,063	2,066,679,066	1,931,362,976
Heating	10,130,292	10,169,287	10,303,006
Total	$5,282,279,579	$5,298,510,575	$4,615,550,193
Municipal Utilities			
Utility Plant in Service 2/			
Electric	$ 191,805,881	$ 184,284,988	$ 168,853,035
Gas	483,894	444,056	441,781
Water	947,251,608	897,886,356	825,826,476
Sewer	112,488,401	110,230,741 4/	138,897,242
Heating	91,127	88,109	87,742
Total	$1,252,120,911	$1,192,934,250	$1,134,106,276
Accumulated Provision for Depreciation 2/			
Electric	$ 82,892,627	$ 77,288,162	$ 72,093,726
Gas	152,806	139,074	125,443
Water	187,617,625	175,795,590	164,580,096
Sewer	18,365,446	18,304,310 4/	21,526,591
Heating	54,300	53,465	51,218
Total	$ 289,082,804	$ 271,580,601	$ 258,377,074
Utility Plant Less Provision for Depreciation 2/			
Electric	$ 108,913,254	$ 106,996,826	$ 96,759,309
Gas	331,088	304,982	316,338
Water	759,633,983	722,090,766	661,246,380
Sewer	94,122,955	91,926,431 4/	117,370,651
Heating	36,827	34,644	36,524
Total	$ 963,038,107	$ 921,353,649	$ 875,729,202

1/ Total plant includes out-of-state properties.
2/ Including apportionment of common property.
3/ Excluding utility plant leased to others.
4/ The decline in sewer plant and its associated reserve for depreciation are due to the elimination of nonutility operations from data and not from any reduction in sewer plant.

TABLE 2

COMPARATIVE STATEMENT OF CAPITALIZATION
PUBLIC UTILITIES OPERATING IN WISCONSIN 1/
1980-1978

	Dec. 31, 1980	Dec. 31, 1979	Dec. 31, 1978
All Utilities			
Long-Term Debt Outstanding	$2,546,852,026	$2,426,162,773	$2,358,745,414
Advances from Affiliates or Municipality	331,189,592	103,638,993	129,362,262
Preferred Stock Outstanding	388,624,360	366,370,700	371,651,350
Common Stock Outstanding and Related Accounts	1,614,303,437	1,575,588,016	1,497,700,071
Capital Paid in by Municipality	84,714,416	78,840,333	73,445,944
Surplus	1,192,333,781	1,131,215,154	1,022,140,385
Customers' Advances in Aid of Construction	15,601,312	13,338,871	12,666,330
Contributions in Aid of Construction	504,919,667	449,474,979	399,055,753
Total	$6,678,538,591	$6,144,629,819	$5,864,767,509
Private Utilities			
Long-Term Debt Outstanding	$2,309,087,418	$2,210,622,196	$2,147,247,883
Advances from Affiliates	241,650,818	15,074,961	50,653,761
Preferred Stock Outstanding	388,624,360	366,370,700	371,651,350
Common Stock Outstanding and Related Accounts	1,614,303,437	1,575,588,016	1,497,700,071
Surplus	863,319,534	816,102,266	721,397,901
Customers' Advances in Aid of Construction	12,062,599	10,517,697	9,876,930
Contributions in Aid of Construction	66,157,324	56,617,452	45,873,657
Total	$5,495,205,490	$5,050,893,288	$4,844,401,553
Municipal Utilities			
Long-Term Debt Outstanding	$ 237,764,608	$ 215,540,577	$ 211,497,531
Advances from Municipality	89,538,774	88,564,032	78,708,501
Capital Paid in by Municipality	84,714,416	78,840,333	73,445,944
Surplus	329,014,247	315,112,888	300,742,484
Customers' Advances in Aid of Construction	3,538,713	2,821,174	2,789,400
Contributions in Aid of Construction	438,762,343	392,857,527	353,182,096
Total	$1,183,333,101	$1,093,736,531	$1,020,365,956

1/ These data necessarily represent total company figures. A few companies operate outside of Wisconsin. Electric, gas, water, sewer, heating and telephone utilities are included.

TABLE 3

DISPOSITION OF INCOME
PUBLIC UTILITIES OPERATING IN WISCONSIN 1/
1980-1978

	1980	1979	1978
All Utilities			
Net Operating Revenues			
Electric	$ 267,262,876	$ 239,124,090	$ 221,967,878
Gas	53,483,512	54,464,316	50,397,414
Telephone	182,229,838	173,325,634	154,213,433
Water	11,058,962	13,686,472	12,962,204
Sewer	(204,095)	46,360	22,651
Steam and Hot Water Heating	969,985	733,624	1,194,067
Total	$ 514,801,078	$ 481,380,496	$ 440,757,647
Income from Plant Leased to Others	$ 45,814	$ 56,986	$ 345,362
Income from Merchandising and Jobbing	337,146	145,333	149,548
Other Income - Net	39,842,030	36,731,231	31,916,913
Gross Income	$ 555,026,068	$ 518,314,046	$ 473,169,470
Interest on Long-Term Debt	$ 181,417,582	$ 157,075,416	$ 158,495,127
Amortization of Debt Discount and Premium	1,606,804	1,278,554	1,330,159
Interest on Debt to Associated Companies or City	7,610,715	2,775,076	6,527,567
Other Deductions	40,092,468	27,993,021	12,092,343
Net Income	$ 324,298,499	$ 329,191,979	$ 294,724,274
Dividend Appropriations on Preferred Stock	$ 29,601,837	$ 28,877,470	$ 23,777,320
Dividend Appropriations on Common Stock 2/	224,070,921	191,824,432	173,460,866
Appropriations to City	1,508,894	1,796,811	1,257,307
Balance Transferred to Surplus	$ 69,116,847	$ 106,693,266	$ 96,228,781

(Continued)

TABLE 3 (Continued)

DISPOSITION OF INCOME
PUBLIC UTILITIES OPERATING IN WISCONSIN 1/
1980-1978

	1980	1979	1978
Private Utilities			
Net Operating Revenues			
Electric	$ 261,798,075	$ 234,124,198	$ 217,085,172
Gas	53,471,706	54,439,925	50,371,130
Telephone	182,229,838	173,325,634	154,213,433
Water	666,752	542,326	642,974
Sewer	(1,064)	1,361	(2,952)
Steam and Hot Water Heating	977,083	741,829	1,198,977
Total	$ 499,142,390	$ 463,175,273	$ 423,508,734
Income from Plant Leased to Others	$ 44,914	$ 56,086	$ 344,462
Income from Merchandising and Jobbing	164,614	59,280	(4,611)
Other Income - Net	26,365,103	27,438,406	24,400,654
Gross Income	$ 525,717,021	$ 490,729,045	$ 448,249,239
Interest on Long-Term Debt	$ 169,157,829	$ 146,558,104	$ 148,756,148
Amortization of Debt Discount and Premium	1,332,967	1,081,350	1,080,479
Interest on Debt to Associated Companies	3,711,901	(533,343)	3,334,300
Other Deductions	40,121,901	28,060,483	12,365,858
Net Income	$ 311,392,423	$ 315,562,451	$ 282,712,454
Dividend Appropriations on Preferred Stock	$ 29,601,837	$ 28,877,470	$ 23,777,320
Dividend Appropriations on Common Stock 2/	224,070,921	191,824,432	173,460,866
Balance Transferred to Surplus	$ 57,719,665	$ 94,860,549	$ 85,474,268

TABLE 3 (Concluded

DISPOSITION OF INCOME
PUBLIC UTILITIES OPERATING IN WISCONSIN 1/
1980-1867

	1980	1979	1978
Municipal Utilities			
Net Operating Revenues			
Electric	$ 5,464,801	$ 4,999,892	$ 4,882,706
Gas	11,806	24,391	26,284
Water	10,392,210	13,144,146	12,319,230
Sewer	(203,031)	44,999	25,603
Steam and Hot Water Heating	(7,098)	(8,205)	(4,910)
Total	$ 15,658,688	$ 18,205,223	$ 17,248,913
Income from Plant Leased to Other	$ 900	$ 900	$ 900
Income from Merchandising and Jobbing	172,532	86,053	154,159
Other Income - Net	13,476,927	9,292,825	7,516,259
Gross Income	$ 29,309,047	$ 27,585,001	$ 24,920,231
Interest on Long-Term Debt	$ 12,259,753	$ 10,517,312	$ 9,738,979
Amortization of Debt Discount and Premium	273,837	197,204	249,680
Interest on Debt to City	3,898,814	3,308,419	3,193,267
Other Deductions	(29,433)	(67,462)	(273,515)
Net Income	$ 12,906,076	$ 13,629,528	$ 12,011,820
Appropriations to City	1,508,894	1,796,811	$ 1,257,307
Balance Transferred to Surplus	$ 11,397,182	$ 11,832,717	$ 10,754,513

1/ Includes out-of-state operations of Wisconsin utilities.
2/ Excluding Stock Dividends.

ELECTRIC UTILITY STATISTICS

Comparative statistics of Wisconsin electric utilities for the 3-year period, 1978 to 1980, are summarized in this section. Out-of-state operations are excluded (except in tables 7, 8 and 9 where data on out-of-state sales, purchases and generating plant are presented).

The following tables and charts present the data covering electric utility operations:

Table 4 - Comparative Statement of Revenues and Expenses, 1980-1978
Table 5 - Sales to Ultimate Customers, 1980-1978
Table 6 - Comparative Statement of Operating Expenses, 1980-1978
Table 7 - Summary of Megawatt Hours Sold and Used, 1980-1978
Table 8 - Megawatt Hours Generated and Purchased, 1980-1978
Table 9 - Generating Plant, Substation and Transmission Line Data, 1980-1979
Table 10 - Condensed Summary of 1980 Operations - Individual Private Electric Utilities
Table 11 - Condensed Summary of 1980 Operations - Individual Municipal Electric Utilities
Chart 10 - Residential Revenue and Consumption Ratios, Wisconsin and United States, 1971-1980
Chart 11 - Comparison of Revenues and Expenses, Wisconsin Electric Utilities, 1971-1980
Chart 12 - Revenues from Sales to Ultimate Consumers by Individual Wisconsin Electric Utilities, Percent of Total, 1980

Electric Consumers

The total number of ultimate (retail) electric consumers increased 1.8% over 1979. Residential customers increased 1.8% and rural customers increased 0.5%. Commercial and industrial customers increased 2.2%.

As has already been pointed out, electric cooperatives are not included in the tables. These organizations served an estimated 156,000 customers during 1980. This was 53% of all rural electric customers served in the state.

Revenue and Consumption Ratios

Kilowatt hours sold to ultimate consumers in Wisconsin rose 0.8% during 1980. Commercial and industrial consumption rose 0.3% during the year while residential and rural consumption increased 2.4% and 1.3% respectively.

State-wide averages by class of service for revenue per megawatt hour are compared below:

1980	1979	1978
Residential	$48.01	$43.65	$39.87
Commercial and Industrial	39.12	35.20	31.81
Rural	47.96	44.75	40.76
Public St. and Hwy. Lighting	53.22	48.67	44.56
Other Sales to Public Auth.	36.65	32.88	30.55
Interdepartmental Sales	37.39	34.24	28.92
Total Ultimate Consumers	$42.35	$38.29	$34.78

State-wide average ratios of kilowatt hour consumption per customer and revenue per customer are compared below for the three major classes of service:

	1980	1979	1978
Average Annual Use (kWh)			
Residential	7,014	6,976	7,007
Commercial and Industrial	122,696	125,089	122,980
Rural	13,814	13,711	13,604
Average Annual Bill			
Residential	$ 336.75	$ 304.51	$ 279.38
Commercial and Industrial	4,800.35	4,403.73	3,911.97
Rural	662.56	613.55	554.55

Average annual use for residential customers increased by 0.5%, commercial and industrial decreased by 1.9% and rural increased by 0.8%. Average annual bills were up by 10.6%, 9.0% and 8.0% respectively for the three classes of service.

Residential revenue and consumption ratios of Wisconsin utilities are compared with national averages over a 10-year period in Chart 10. In 1980, the average Wisconsin residential customer consumer 21.9% fewer kilowatt hours and paid an average bill that was 23.9% less than the national average.

Electric Utility Income Account

A summary of the income account of Wisconsin electric utilities for the past three years is presented in Table 4. A 10-year graphic comparison is made in Chart 11.

Operating revenues continue to rise steadily with 1980 revenues up 10.6% over 1979. Total operating expenses increased 10.4% and net operating revenues were up 11.6%.

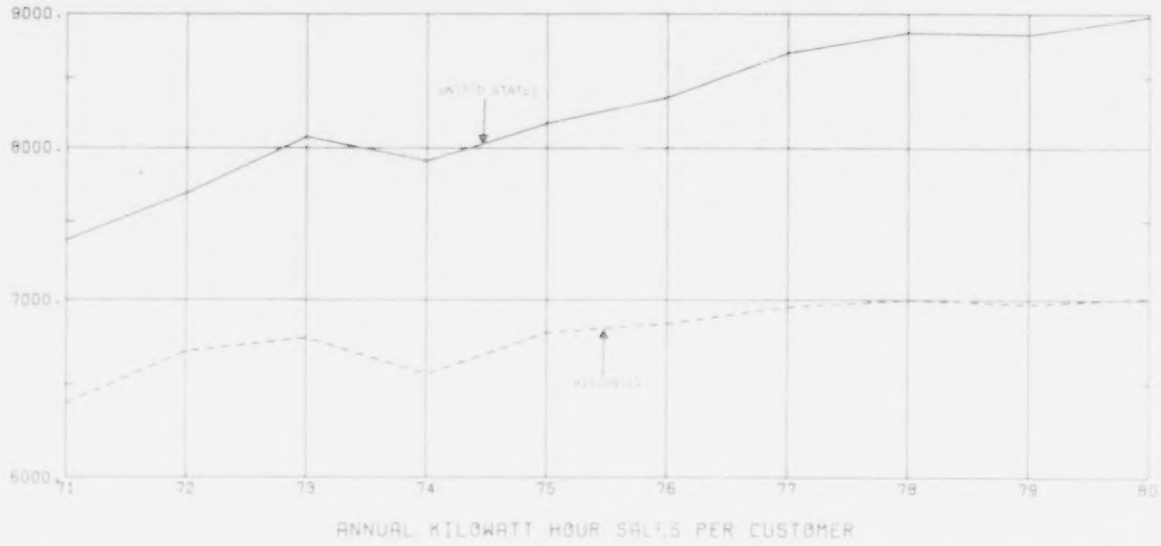
Table 6 presents a detailed analysis of operating expenses, exclusive of depreciation and taxes. Of the classes of expense shown, production had the greatest increase which was 14.8%. Sales was least with a 49.8% decrease.

A comparison of certain expense ratios of private and municipal utilities in 1980 is presented below:

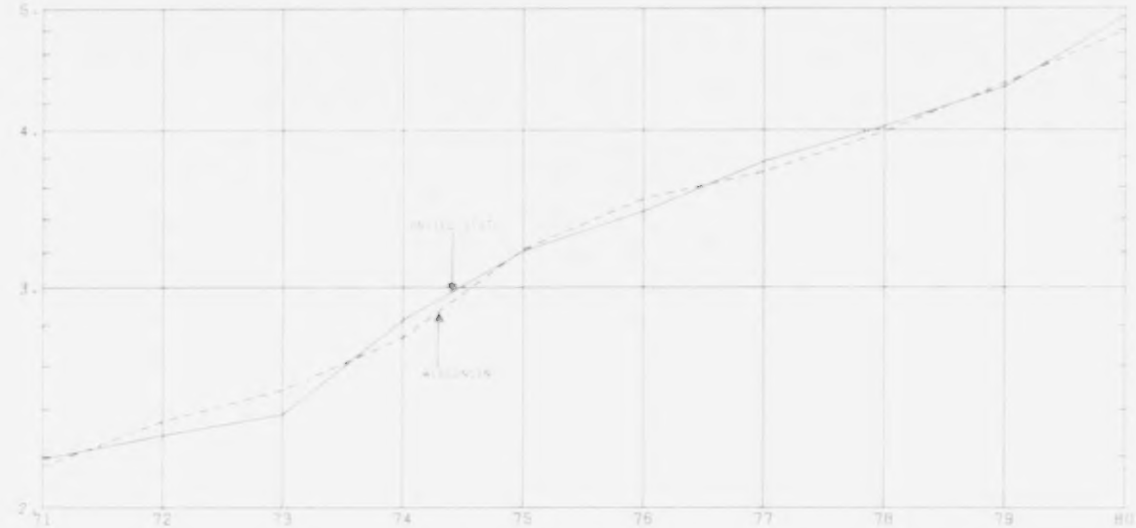
	1980 Expense Ratios					
	Per Dollar of Revenue		Per Average Customer		Per MWh Sold	
	Pvt.	Mun.	Pvt.	Mun.	Pvt.	Mun
Production and Trans.	49.15¢	78.70¢	$477.80	$606.42	$24.26	$30.79
Distribution	5.14	3.62	49.95	27.92	2.54	1.42
Customer Accounts	1.85	1.57	17.95	12.11	0.91	0.61
Customer Services	0.49	0.00	4.81	0.00	0.24	0.00
Sales Promotion 1/	0.04	0.01	0.37	0.05	0.02	0.01
Administrative and General	6.17	4.83	60.02	37.19	3.05	1.89
Total Oper. and Main.	62.84	88.73	610.90	683.69	31.02	34.72
Depreciation	10.95	4.60	106.53	35.44	5.41	1.80
Taxes Other than Income Taxes	3.76	2.74	36.55	21.15	1.85	1.07
Income Taxes	6.32	0.00	61.44	0.00	3.12	0.00
Total Operating	83.87¢	96.07¢	$815.42	$740.28	$41.40	$37.59

1/ Includes customer service expenses for municipally owned utilities.

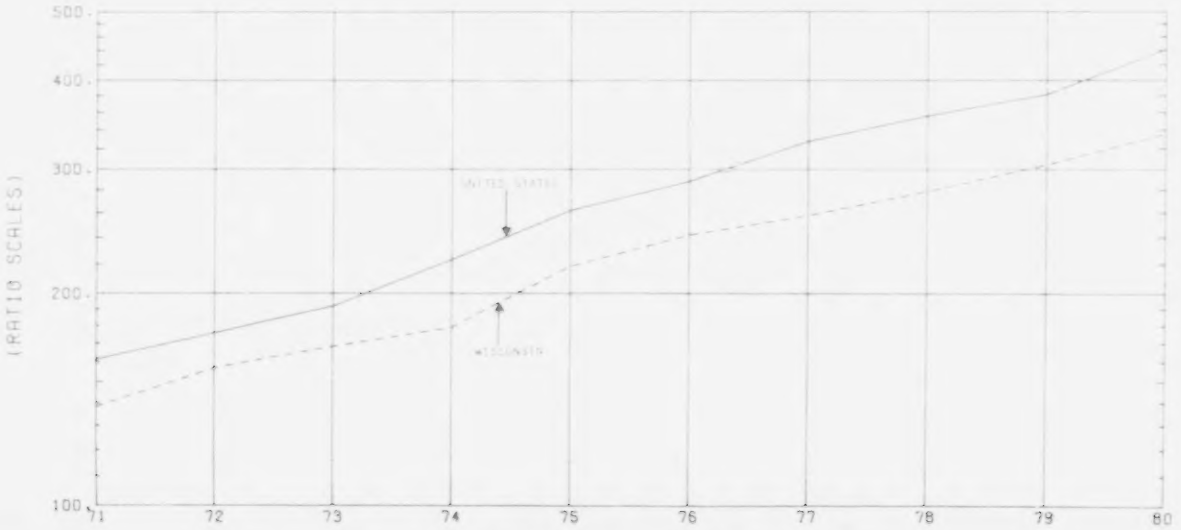
CHART 10
WISCONSIN AND U.S. RESIDENTIAL REVENUE AND CONSUMPTION RATIOS



ANNUAL KILOWATT HOUR SALES PER CUSTOMER

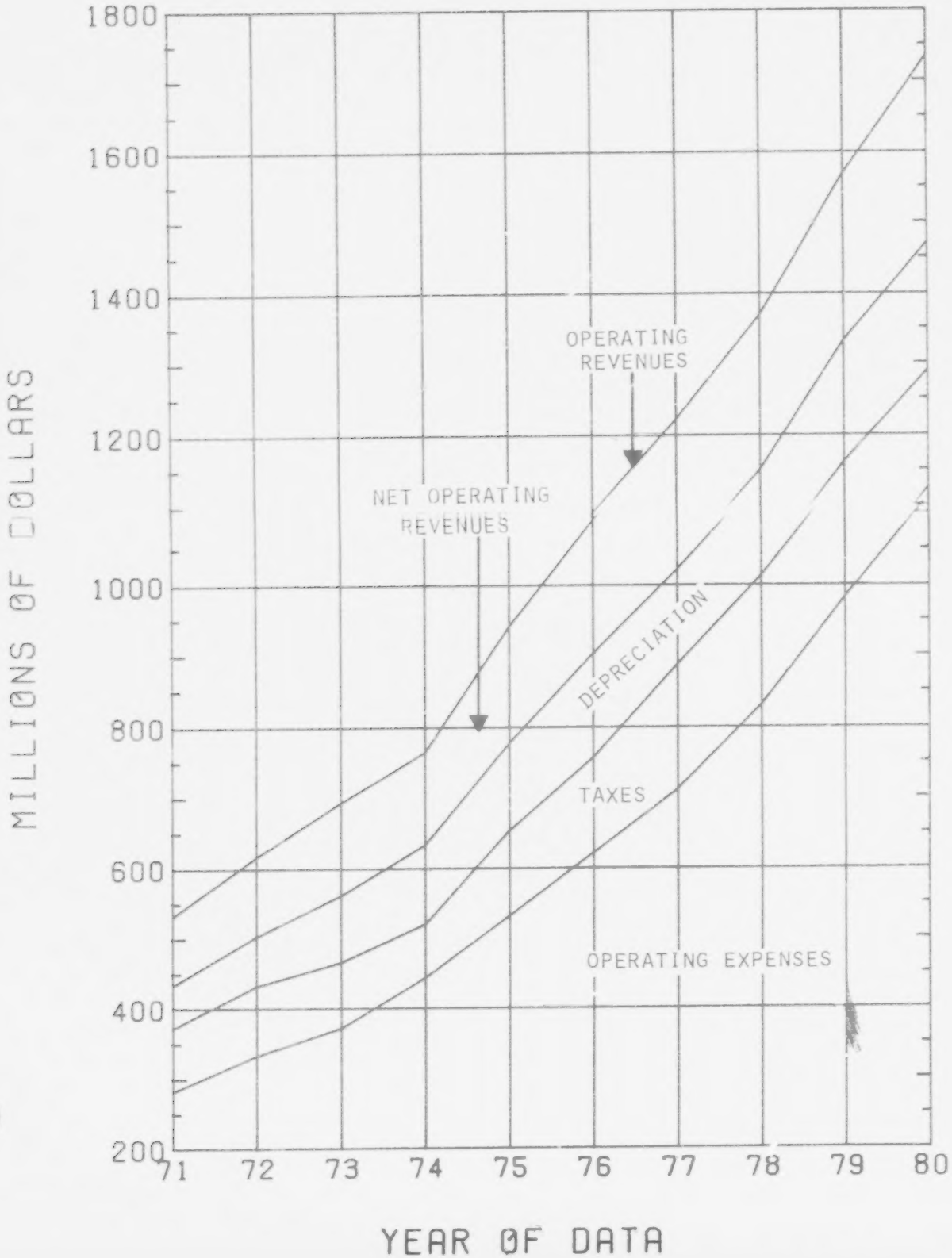


REVENUE PER KILOWATT HOUR



REVENUE PER CUSTOMER

CHART 11
WISCONSIN ELECTRIC UTILITIES REVENUES AND EXPENSES



In addition to the above breakdown of operating expenses, Table 6 presents the detail of production expense on a company-wide basis. If this breakdown is related to corresponding data on generation and purchases, the following comparison of costs per megawatt hour, exclusive of fixed charges, results:

	Production Expense* Per Megawatt Hour Generated or Purchased 1980	
	Private Utilities	Municipal Utilities
Steam Plants-Nuclear Fuel	$ 8.55	$ 0.00
Steam Plants-Fossil Fuel	21.11	49.49
Hydro Electric Plants	5.26	4.16
Internal Combustion (Recip. & Turbine)	60.39	53.29
Purchased Energy	25.46	27.74

*Excludes depreciation, taxes, and return.

Kilowatt Hours Generated and Purchased; Fuel Consumed

The sources of energy of Wisconsin electric utilities are summarized in Table 8. The net generation by plants located in Wisconsin is compared below on a percentage basis over a period of ten years:

	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971
Steam-Nuclear	28.4%	29.7%	34.3%	33.3%	33.0%	33.4%	27.5%	20.1%	11.3%	12.8%
Steam-Fossil	65.9	62.9	58.1	60.8	60.9	59.5	63.8	70.5	80.3	79.6
Hydro	4.6	5.0	5.1	4.2	3.6	4.8	5.0	6.2	6.6	6.2
Int. Comb.-Recip.	0.1	0.1	0.2	0.1	0.6	0.2	0.2	0.2	0.2	0.2
Int. Comb.-Turbine	1.0	2.3	2.3	1.6	1.9	2.1	3.5	3.0	1.6	1.2
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100 0%	100.0%	100.0%	100.0%

During the ten years covered, fossil steam generating plants have produced a major portion of the State's electric energy, varying from a high of 80.3% in 1972 to a low of 58.1% in 1978. Internal combustion turbine plants are being used in increasing numbers as peaking units. There were sixteen units in operation at the end of 1980 as compared to only 12 in 1971. Privately owned utilities generated 99.0% of total energy produced by utilities in 1980. The most significant change has been the nuclear plants which generated no energy in 1970 but now produce about 28% of the total.

Fuel consumption ratios over the past five years are presented below:

	1980	1979	1978	1977	1976
BTU's of Fuel Used in Nuclear Steam Plants Per kWh Generated (Net)	10,825	10,605	10,554	10,491	10,550
BTU's of Fuel Used in Fossil Steam Plants Per kWh Generated (Net)	11,133	11,157	11,271	10,931	10,839
BTU's of Fuel Used in Turbine Plants Per kWh Generated (Net)	15,328	14,493	13,792	14,538	14,439
BTU's of Fuel Used in Reciprocating Plants Per kWh Generated (Net)	12,155	10,727	10,688	9,489	12,249

Generating Plant and Transmission Line Data

Data on the capacity of generating plants and miles of transmission pole line are presented in Table 9. The total capacity of all generating plants operated by Wisconsin utilities as of December 1980 was about 10,000 megawatts of which about 95 megawatts were in plants located outside the State. Of the capacity of plants located in Wisconsin, 16.2% is steam-nuclear, 65.6% is steam-fossil, 3.7% is hydro, 1.1% is by reciprocating engines, and 13.4% is turbine.

About 9,300 miles of transmission line were in service at the close of 1980 of which about 4,300 miles carry voltage in excess of 100,000 volts.

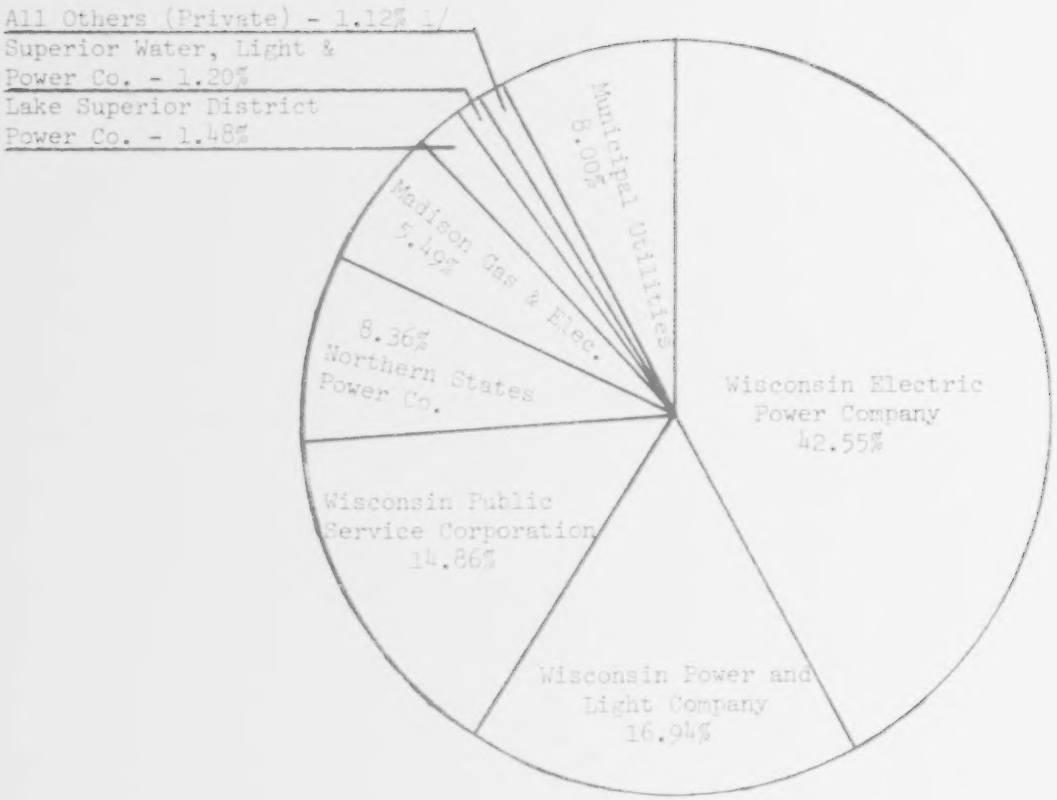
Data on Individual Utilities

Table 10 presents selected operating data covering the year 1980 for each Class A, B, and C private electric utility in the State and Table 11 presents similar data on each Class A, B, and C municipal electric utility. Chart 12 shows the percentage distribution by companies of electric operating revenue from sales to ultimate consumers. Four large private utilities account for 82% of the total. Municipal utilities make up 8%.

Table 10 shows that private utilities as a group generated a large part of their energy requirements while Table 11 shows that municipal utilities purchase most of their requirements. Of the 64 individual municipal utilities listed, only 15 generated some electricity.

CHART 12

Revenues of Wisconsin Electric Utilities
In Percent of Total Sales to Ultimate Consumers
1980


All Others (Private) - 1.12% 1/
Superior Water, Light & Power Co. - 1.20%
Lake Superior District Power Co. - 1.48%
Municipal Utilities 8.00%
Madison Gas & Elec. 5.49%
8.36% Northern States Power Co.
Wisconsin Public Service Corporation 14.86%
Wisconsin Power and Light Company 16.94%
Wisconsin Electric Power Company 42.55%

1/ Consolidated Water Power Co.
Northwestern Wisconsin Electric Co.
Dahlberg Light & Power Co.
North Central Power Co.
Class C Private
Class D Private

TABLE 4

COMPARATIVE STATEMENT OF REVENUES AND EXPENSES
WISCONSIN ELECTRIC UTILITIES 1/
1980-1978

	1980	1979	1978
All Electric Utilities			
Operating Revenues			
Sales to Ultimate Consumers	$1,519,683,003	$1,362,669,434	$1,203,672,136
Sales to Other Utilities	155,626,108	147,577,609	116,812,301
Sales to Electric Cooperatives	8,101,511	7,311,706	7,903,999
Miscellaneous Revenues	51,554,755	51,025,707	41,634,957
Total Operating Revenues	$1,734,965,377	$1,568,584,456	$1,370,023,393
Operating Revenue Deductions			
Operation and Maintenance	$1,126,138,161	$ 983,292,255	$ 830,908,139
Depreciation and Amortization	181,291,329	170,807,124	138,377,797
Taxes Other than Income Taxes	63,816,410	64,493,653	66,910,979
Income Taxes	100,877,262	114,459,322	115,459,589
Total Operating Expenses	$1,472,123,162	$1,333,052,354	$1,151,656,504
Net Operating Revenues	$ 262,842,215	$ 235,532,102	$ 218,366,889
Private Electric Utilities			
Operating Revenues			
Sales to Ultimate Consumers	$1,385,499,676	$1,238,903,708	$1,092,675,008
Sales to Other Utilities	153,210,945	145,780,092	115,832,964
Sales to Electric Cooperatives	8,101,511	7,251,252	7,903,999
Miscellaneous Revenues	49,371,050	49,619,735	40,345,875
Total Operating Revenues	$1,596,183,182	$1,441,554,787	$1,256,757,846
Operating Revenue Deductions			
Operation and Maintenance	$1,003,000,330	$ 870,740,128	$ 731,650,081
Depreciation and Amortization	174,908,555	164,945,913	132,814,954
Taxes Other than Income Taxes	60,008,030	60,877,216	63,349,039
Income Taxes	100,877,262	114,459,322	115,459,589
Total Operating Expenses	$1,338,794,177	$1,211,022,579	$1,043,273,663
Net Operating Revenues	$ 257,389,005	$ 230,532,208	$ 213,484,183

(Continued)

TABLE 4 (Concluded)

COMPARATIVE STATEMENT OF REVENUES AND EXPENSES
WISCONSIN ELECTRIC UTILITIES 1/
1980-1978

	1980	1979	1978
Municipal Electric Utilities			
Operating Revenues			
Sales to Ultimate Consumers	$ 134,183,327	$ 123,765,726	$ 110,997,128
Sales to Other Electric Utilities	2,415,163	1,797,517	979,337
Sales to Electric Cooperatives	0	60,454	0
Miscellaneous Operating Revenues	2,183,705	1,405,972	1,289,082
Total Operating Revenues	$ 138,782,195	$ 127,029,669	$ 113,265,547
Operating Revenue Deductions			
Operation and Maintenance	$ 123,137,831	$ 112,552,127	$ 99,258,058
Depreciation and Amortization	6,382,774	5,861,211	5,562,843
Taxes Other than Income Taxes	3,808,380	3,616,437	3,561,940
Total Operating Expenses	$ 133,328,985	$ 122,029,775	$ 108,382,841
Net Operating Revenues	$ 5,453,210	$ 4,999,894	$ 4,882,706

1/ Excluding out-of-state operations.

TABLE 5

SALES TO ULTIMATE CONSUMERS BY CLASS
WISCONSIN ELECTRIC UTILITIES 1/
1980-1978

All Electric Utilities	1980	1979	1978
Revenues			
Residential	$ 503,358,192	$ 446,918,206	$ 400,514,783
Commercial and Industrial	882,255,845	791,821,576	690,486,511
Rural	91,834,011	84,605,671	76,086,285
Public Street and Highway Lighting	25,670,402	23,253,901	21,046,249
Other Sales to Public Authorities	14,161,938	13,675,573	13,334,910
Interdepartmental Sales	2,402,615	2,394,507	2,203,398
Total Revenue from Ultimate Consumers	$1,519,683,003	$1,362,669,434	$1,203,672,136
Megawatt Hours Sold			
Residential	10,484,099	10,237,699	10,045,259
Commercial and Industrial	22,550,364	22,491,789	21,706,819
Rural	1,914,713	1,890,610	1,866,462
Public Street and Highway Lighting	482,305	477,823	472,363
Other Sales to Public Authorities	386,392	415,862	436,443
Interdepartmental Sales	64,257	69,925	76,187
Total Megawatt Hours Sold to Ultimate Consumers	35,882,130	35,583,708	34,603,533
Average Number of Customers 2/			
Residential	1,494,768	1,467,650	1,433,596
Commercial and Industrial	183,790	179,807	176,506
Rural	138,605	137,895	137,203
Public Street and Highway Lighting	3,346	3,322	3,312
Other Sales to Public Authorities	1,305	1,268	1,216
Interdepartmental Sales	110	112	112
Total Ultimate Consumers	1,821,924	1,790,054	1,751,945

(Continued)

TABLE 5 (Continued)

SALES TO ULTIMATE CONSUMERS BY CLASS
WISCONSIN ELECTRIC UTILITIES 1/
1980-1978

	1980	1979	1978
Private Electric Utilities			
Revenues			
Residential	$ 462,453,690	$ 408,823,932	$ 365,381,109
Commercial and Industrial	803,209,200	719,479,731	626,882,523
Rural	83,291,671	76,665,274	68,832,748
Public Street and Highway Lighting	22,746,541	20,555,130	18,515,539
Other Sales to Public Authorities	12,931,357	12,566,214	12,267,100
Interdepartmental Sales	867,217	813,427	795,989
Total Revenue from Ultimate Consumers	$1,385,499,676	$1,238,903,708	$1,092,675,008
Megawatt Hours Sold			
Residential	9,426,243	9,198,672	9,021,572
Commercial and Industrial	20,382,828	20,340,233	19,681,422
Rural	1,714,555	1,694,270	1,678,478
Public Street and Highway Lighting	432,055	432,115	427,018
Other Sales to Public Authorities	356,589	387,354	407,685
Interdepartmental Sales	23,073	25,659	32,428
Total Megawatt Hours Sold to Ultimate Consumers	32,335,343	32,078,303	31,248,603
Average Number of Customers 2/			
Residential	1,354,494	1,329,747	1,298,248
Commercial and Industrial	160,846	157,076	153,984
Rural	122,215	121,666	121,245
Public Street and Highway Lighting	3,200	3,179	3,169
Other Sales to Public Authorities	1,053	1,041	984
Interdepartmental Sales	9	9	9
Total Ultimate Consumers	1,641,817	1,612,718	1,577,639

(Continued)

TABLE 5 (Concluded)

SALES TO ULTIMATE CONSUMERS BY CLASS
WISCONSIN ELECTRIC UTILITIES 1/
1980-1978

	1980	1979	1978
Municipal Electric Utilities			
Revenues			
Residential	$ 40,904,502	$ 38,094,274	$ 35,133,674
Commercial and Industrial	79,046,645	72,341,845	63,603,988
Rural	8,542,340	7,940,397	7,253,537
Public Street and Highway Lighting	2,923,861	2,698,771	2,530,710
Other Sales to Public Authorities	1,230,581	1,109,359	1,067,810
Interdepartmental Sales	1,535,398	1,581,080	1,407,409
Total Revenue from Ultimate Consumers	134,183,327	123,765,726	110,997,128
Megawatt Hours Sold			
Residential	1,057,856	1,039,027	1,023,687
Commercial and Industrial	2,167,536	2,151,556	2,025,397
Rural	200,158	196,340	187,984
Public Street and Highway Lighting	50,250	45,708	45,345
Other Sales to Public Authorities	29,803	28,508	28,758
Interdepartmental Sales	41,184	44,266	43,759
Total Megawatt Hours Sold to Ultimate Consumers	3,546,787	3,505,405	3,354,930
Average Number of Customers 2/			
Residential	140,274	137,903	135,348
Commercial and Industrial	22,944	22,731	22,522
Rural	16,390	16,229	15,958
Public Street and Highway Lighting	146	143	143
Other Sales to Public Authorities	252	227	232
Interdepartmental Sales	101	103	103
Total Ultimate Consumers	180,107	177,336	174,306

1/ Excluding out-of-state operations.
2/ Heating, cooking and yard lighting customers on separate rates are not included in customer data, as they would be duplications.

TABLE 6

COMPARATIVE STATEMENT OF OPERATION AND MAINTENANCE EXPENSES
WISCONSIN ELECTRIC UTILITIES 1/
1980-1978

	1980	1979	1978
All Electric Utilities			
Production Expense-Total Company			
Steam-Nuclear Fuel	$ 82,930,791	$ 61,672,565	$ 61,449,200
Steam-Fossil Fuel	480,924,384	413,850,753	334,569,574
Hydraulic	10,656,983	9,722,879	7,948,129
Int. Comb.-Recip. and Turbine	23,177,591	35,325,213	31,377,949
Purchases or Net Interchanges	291,135,695	258,049,320	215,624,385
Other Power Supply	7,258,511	2,344,003	2,518,170
Total Production Expense	$ 896,083,955	$ 780,964,733	$ 653,487,407
Amount Applicable to Out-of-State Sales	17,873,548	16,160,558	12,754,281
Amount Applicable to Wisconsin Sales	$ 878,210,407	$ 764,804,175	$ 640,733,126
Operation and Maintenance - Wisconsin Only			
Production	$ 878,210,407	$ 764,804,175	$ 640,733,126
Transmission 2/	15,480,835	14,275,263	12,533,061
Distribution 2/	87,035,383	75,795,753	67,328,850
Customer Accounts	31,650,169	27,437,016	23,338,430
Sales Promotion 3/	621,221	1,237,445	1,498,513
Customer Service	7,894,759	5,311,787	4,999,986
Administrative and General	105,245,387	94,430,816	80,476,173
Total	$1,126,138,161	$ 983,292,255	$ 830,908,139
Private Electric Utilities			
Production Expense - Total Company			
Steam-Nuclear Fuel	$ 82,930,791	$ 61,672,565	$ 61,449,200
Steam-Fossil Fuel	470,604,150	403,855,661	322,475,523
Hydraulic	10,189,030	9,284,058	7,646,831
Int. Comb.-Recip. and Turbine	21,349,972	33,214,791	29,318,144
Purchases or Net Interchanges	194,592,507	170,402,602	141,929,647
Other Power Supply	7,258,453	2,341,322	2,486,505
Total Production Expense	$ 786,924,903	$ 680,770,999	$ 565,305,850
Amount Applicable to Out-of-State Sales	17,873,548	16,160,558	12,754,281
Amount Applicable to Wisconsin Sales	$ 769,051,355	$ 664,610,441	$ 552,551,569
Operation and Maintenance - Wisconsin Only			
Production	$ 769,051,355	$ 664,610,441	$ 552,551,569
Transmission 2/	15,419,685	14,211,073	12,256,005
Distribution 2/	82,006,471	71,472,934	63,734,851
Customer Accounts	29,468,418	25,454,135	21,510,084
Sales Promotion	615,386	1,221,730	1,485,539
Customer Service	7,892,268	5,311,787	4,999,986
Administrative and General	98,546,747	88,458,028	75,112,047
Total	$1,003,000,330	$ 870,740,128	$ 731,650,081

TABLE 6 (Concluded)

COMPARATIVE STATEMENT OF OPERATION AND MAINTENANCE EXPENSES
WISCONSIN ELECTRIC UTILITIES 1/
1980-1978

	1980	1979	1978
Municipal Electric Utilities			
Production Expense			
Steam-Fossil Fuel	$ 10,320,234	$ 9,995,092	$ 12,094,051
Hydraulic	467,953	438,821	301,298
Int. Com.-Recip. and Turbine	1,827,619	2,110,422	2,059,805
Purchases or Net Interchanges	96,543,188	87,646,718	73,694,738
Other Power Supply	58	2,681	31,665
Total Production Expense	$ 109,159,052	$ 100,193,734	$ 88,181,557
Transmission 2/	61,150	64,190	277,056
Distribution 2/	5,028,912	4,322,819	3,593,999
Customer Accounts	2,181,751	1,982,881	1,828,346
Sales 3/	8,326	15,715	12,974
Administrative and General	6,698,640	5,972,788	5,364,126
Total	$ 123,137,831	$ 112,552,127	$ 99,258,058

1/ Out-of-state operations of Wisconsin Utilities are not included except in detail of production expenses, as indicated.
2/ Transmission and distribution expenses are combined in the Class D report forms. These utilities are assumed to have no transmission expense.
3/ Includes customer service expense of municipal utilities.

TABLE 7

SUMMARY OF MEGAWATT HOURS SOLD AND USED
WISCONSIN ELECTRIC UTILITIES
1980-1978

All Electric Utilities	1980	1979	1978
MWh Sold to Ultimate Customers (Wisconsin Only)	35,884,078	35,583,708	34,603,533
MWh Sold to Other Electric Utilities and Cooperatives			
Wisconsin Electric Utilities	5,011,982	4,866,363	4,260,238
Electric Cooperatives	296,699	298,698	288,578
Total Sold to Other Electric Utilities and Cooperatives	5,308,681	5,165,061	4,548,816
MWh Used by Utilities 1/	37,630	101,036	98,903
Total MWh Sold or Used in Wisconsin	41,230,389	40,849,805	39,251,252
MWh Used by Utilities Out-of-State	829	7,021	3/
MWh Sold Outside Wisconsin by Wisconsin Utilities 2/	1,527,971	1,434,005	1,224,943
Total MWh Sold or Used	42,759,189	42,290,831	40,476,195
MWh Unaccounted for	3,006,818	2,965,703	3,004,610
Total MWh Generated and Purchased	45,766,007	45,256,534	43,480,805

(Continued)

TABLE 7 (Continued)

SUMMARY OF MEGAWATT HOURS SOLD AND USED
WISCONSIN ELECTRIC UTILITIES
1980-1978

	1980	1979	1978
Private Electric Utilities			
MWh Sold to Ultimate Customers (Wisconsin Only)	32,335,343	32,078,303	31,248,603
MWh Sold to Other Electric Utilities and Cooperatives			
Wisconsin Electric Utilities	4,928,841	4,789,335	4,213,491
Electric Cooperatives	296,699	298,336	288,578
Total Sold to Other Electric Utilities and Cooperatives	5,225,540	5,087,671	4,502,069
MWh Used by Utilities 1/	33,750	96,632	94,605
Total MWh Sold or Used in Wisconsin	37,594,633	37,262,606	35,845,277
MWh Used by Utilities Out-of-State	829	7,021	3/
Total MWh Sold Outside Wisconsin by Wisconsin Utilities 2/	1,527,971	1,434,005	1,224,943
Total MWh Sold or Used	39,123,433	38,703,632	37,070,220
MWh Unaccounted for	2,806,894	2,754,744	2,809,645
Total MWh Generated and Purchased	41,930,327	41,458,376	39,879,865

(Continued)

TABLE 7 (Concluded)

SUMMARY OF MEGAWATT HOURS SOLD AND USED
WISCONSIN ELECTRIC UTILITIES
1980-1978

	1980	1979	1978
Municipal Electric Utilities			
MWh Sold to Ultimate Customers	3,548,735	3,505,405	3,354,930
MWh Sold to Other Electric Utilities and Cooperatives			
Wisconsin Electric Utilities	83,141	77,028	46,747
Electric Cooperatives	0	362	0
Total Sold to Other Electric Utilities and Cooperatives	83,141	77,390	46,747
MWh Used by Utilities 1/	3,880	4,404	4,298
Total MWh Sold or Used	3,635,756	3,587,199	3,405,975
MWh Unaccounted for	199,924	210,959	194,965
Total MWh Generated and Purchased	3,835,680	3,798,158	3,600,940

1/ Excluding interdepartmental sales.
2/ Includes sales to out-of-state utilities delivered in Wisconsin and at the state line.
3/ Out-of-state use was not tabulated separately prior to 1979.

TABLE 8

MEGAWATT HOURS GENERATED AND PURCHASED
WISCONSIN ELECTRIC UTILITIES
1980-1978

	1980	1979	1978
All Electric Utilities			
Net Generation in Wisconsin			
Steam - Nuclear Fuel	9,697,654	10,202,173	11,543,934
Steam - Fossil Fuel	22,506,544	21,579,086	19,598,846
Hydraulic	1,561,421	1,713,111	1,734,196
Internal Combustion - Recip.	33,105	43,068	55,615
Internal Combustion - Turbine	354,647	784,632	772,103
Total	34,153,371	34,322,070	33,704,694
Net Generation Outside Wisconsin by Wisconsin Companies			
Hydraulic	488,905	554,386	455,305
Internal Combustion - Recip.	8	84	0
Total	488,913	554,470	455,305
Total Megawatt Hours Generated			
Steam - Nuclear	9,697,654	10,202,173	11,543,934
Steam - Fossil Fuel	22,506,544	21,579,086	19,598,846
Hydraulic	2,050,326	2,267,497	2,189,501
Internal Combustion - Recip.	33,113	43,152	55,615
Internal Combustion - Turbine	354,647	784,632	772,103
Total	34,642,284	34,876,540	34,159,999
Megawatt Hours Purchased Plus Net Interchanges			
From Wisconsin Electric Utilities	6,732,947	5,497,845	4,295, 6
From Out-of-State Elec. Utils. 1/	3,946,398	4,353,240	4,082,
From Electric Cooperatives	387,429	275,304	672,06
From Other Non-Utility Companies	186,339	253,605	270,873
Total	11,253,113	10,379,994	9,320,806
Total Megawatt Hours Generated and Purchased	45,895,397	45,256,534	43,480,805
Tons of Coal Used in Steam Plants	11,538,407	10,683,831	9,915,180
Gallons of Fuel Oil Used in Steam Plants	22,423,590	21,754,802	57,585,892
Therms of Natural Gas Used in Steam Plants	98,667,731	139,122,297	40,566,748
Gallons of Fuel Oil Used in Internal Combustion-Recip. Plants	591,346	1,007,308	2,779,628
Therms of Natural Gas Used in Internal Combustion-Recip. Plants	1,469,001	312,074	236,205
Gallons of Fuel Oil Used in Internal Combustion-Turbine Plts.	9,866,050	31,068,317	50,445,827
Therms of Natural Gas Used in Internal Combustion-Turbine Plts.	40,461,798	70,055,963	37,925,518

TABLE 8 (Continued)

MEGAWATT HOURS GENERATED AND PURCHASED
WISCONSIN ELECTRIC UTILITIES
1980-1978

	1980	1979	1978
Private Electric Utilities			
Net Generation in Wisconsin			
Steam - Nuclear Fuel	9,697,654	10,202,173	11,543,934
Steam - Fossil Fuel	22,297,994	21,323,805	19,234,731
Hydraulic	1,449,044	1,598,122	1,611,573
Internal Combustion - Recip.	1,211	2,724	8,900
Internal Combustion - Turbine	352,289	777,626	766,719
Total	33,798,192	33,904,450	33,165,857
Net Generation Outside Wisconsin by Wisconsin Companies			
Hydraulic	488,905	554,386	455,305
Internal Combustion - Recip.	8	84	0
Total	488,913	554,470	455,305
Total Megawatt Hours Generated			
Steam - Nuclear	9,697,654	10,202,173	11,543,934
Steam - Fossil Fuel	22,297,994	21,323,805	19,234,731
Hydraulic	1,937,949	2,152,508	2,066,878
Internal Combustion - Recip.	1,219	2,808	8,900
Internal Combustion - Turbine	352,289	777,626	766,719
Total	34,287,105	34,458,920	33,621,162
Megawatt Hours Purchased Plus Net Interchanges			
From Wisconsin Electric Utilities	3,453,954	2,305,695	1,419,667
From Out-of-State Elec. Utils. 1/	3,946,398	4,353,240	4,082,791
From Electric Cooperatives	190,337	89,536	486,803
From Other Non-Utility Companies	181,923	250,985	269,442
Total	7,772,612	6,999,456	6,258,703
Total Megawatt Hours Generated and Purchased	42,059,717	41,458,376	39,879,865
Tons of Coal Used in Steam Plants	11,380,644	10,512,428	9,677,050
Gallons of Fuel Oil Used in Steam Plants	22,423,590	21,728,910	57,507,450
Therms of Natural Gas Used in Steam Plants	98,667,731	139,122,297	40,566,748
Gallons of Fuel Oil Used in Internal Combustion-Recip. Plants	112,518	73,416	725,970
Therms of Natural Gas Used in Internal Combustion-Recip. Plants	0	175,140	0
Gallons of Fuel Oil Used in Internal Combustion-Turbine Plts.	9,861,726	31,006,214	50,414,490
Therms of Natural Gas Used in Internal Combustion-Turbine Plts.	40,461,798	70,055,963	37,556,666

TABLE 8 (Concluded)

MEGAWATT HOURS GENERATED AND PURCHASED
WISCONSIN ELECTRIC UTILITIES
1980-1978

	1980	1979	1978
Municipal Electric Utilities			
Net Generation in Wisconsin			
Steam - Nuclear Fuel	208,550	255,281	364,115
Hydraulic	112,377	114,989	122,623
Internal Combustion - Recip.	31,894	40,344	46,715
Internal Combustion - Turbine	2,358	7,006	5,384
Total	355,179	417,620	538,837
Megawatt Hours Purchased			
From Wisconsin Electric Utilities	3,278,993	3,192,150	2,875,409
From Electric Cooperatives	197,092	185,768	185,263
From Other Non-Utility Companies	4,416	2,620	1,431
Total	3,480,501	3,380,538	3,062,103
Total Megawatt Hours Generated and Purchased	3,835,680	3,798,158	3,600,940
Tons of Coal Used in Steam Plants	157,763	171,810	238,130
Gallons of Fuel Oil Used in Steam Plants	0	25,892	78,442
Therms of Natural Gas Used in Steam Plants	0	0	0
Gallons of Fuel Oil Used in Internal Combustion-Recip. Plants	478,828	933,892	2,053,658
Therms of Natural Gas Used in Internal Combustion-Recip. Plants	1,469,001	2,863,636	236,205
Gallons of Fuel Oil Used in Internal Combustion-Turbine Plants	4,324	62,103	31,337
Therms of Natural Gas Used in Internal Combustion-Turbine Plants	0	0	368,852

1/ Includes purchases delivered in Wisconsin or at state line.

TABLE 9

GENERATING PLANT AND TRANSMISSION LINE DATA
WISCONSIN ELECTRIC UTILITIES
1980-1978

	1980	1979	1978
Capacity of Generators in Kilowatts			
All Plants in Wisconsin			
Steam - Nuclear Fuel	1,540,682	1,540,682	1,540,682
Steam - Fossil Fuel	6,250,666	5,720,654	5,720,654
Hydraulic	349,570	349,170	349,290
Internal Combustion - Recip.	102,471	102,904	98,028
Internal Combustion - Turbine	1,279,700	1,279,700	1,279,700
Total	9,523,089	8,993,110	8,988,354
Private Utility Plants in Wisconsin			
Steam - Nuclear Fuel	1,540,682	1,540,682	1,540,682
Steam - Fossil Fuel	6,096,736	5,566,724	5,566,724
Hydraulic	330,825	330,425	330,425
Internal Combustion-Recip.	34,471	34,721	34,721
Internal Combustion-Turbine	1,259,700	1,259,700	1,259,700
Total	9,262,414	8,732,252	8,732,252
Municipal Utility Plants in Wisconsin			
Steam - Fossil Fuel	153,930	153,930	153,930
Hydraulic	18,745	18,745	18,865
Internal Combustion-Recip.	68,000	68,183	63,307
Internal Combustion-Turbine	20,000	20,000	20,000
Total	260,675	260,858	256,102
Plants Located Outside Wisconsin Operated by Wisconsin Utils. 1/			
Hydraulic	90,699	90,699	90,699
Internal Combustion-Recip.	5,042	5,042	5,042
Total	95,741	95,741	95,741
Total Plants Operated by Wisconsin Utilities			
Steam - Nuclear Fuel	1,540,682	1,540,682	1,540,682
Steam - Fossil Fuel	6,250,666	5,720,654	5,720,654
Hydraulic	440,269	439,869	439,989
Internal Combustion-Recip.	107,513	107,946	103,070
Internal Combustion-Turbine	1,279,700	1,279,700	1,279,700
Total	9,518,830	9,088,851	9,084,095
Miles of Transmission Pole or Tower (Including Out-of-State)			
Over 100,000 Volts	4,281	4,138	4,054
Less than 100,000 Volts	5,091	5,127	5,427

1/ Out-of-State plants are all owned by private electric utilities.

TABLE 10

CONDENSED SUMMARY OF 1980 OPERATIONS
INDIVIDUAL PRIVATE ELECTRIC UTILITIES 1/

Utilities	Operating Revenues 2/	Operation & Maintenance	Depreciation & Amortization	Taxes Other Than Income Taxes	Income Taxes	Net Operating Revenue	Total MWH Sold 2/	Average Number of Consumers 3/	MWH Generated 4/	MWH Purchased 4/
Class A, B, and C										
Consolidated Water Power Co.	9,406,198	8,877,279	297,544	106,892	86,504	37,979	477,145	969	140,816	342,624
Dahlberg Light & Power Co.	3,064,601	2,334,179	182,659	78,640	144,407	324,716	50,562	8,609	1,708	56,669
Cross Plains Electric Co.	659,367	528,410	38,870	15,322	12,345	64,420	12,427	1,039	0	13,231
Lake Superior District Power Co.	25,629,019	18,444,045	2,639,730	940,235	1,042,284	2,562,725	596,632	30,783	361,711	427,815
Madison Gas and Electric Co.	95,363,571	52,567,495	11,312,566	3,736,891	8,780,404	18,966,215	2,248,592	95,642	2,244,070	89,003
North Central Power Co.	924,502	589,249	61,572	43,498	44,628	185,555	17,078	2,835	10,227	9,435
Northern States Power Co.	144,991,823	99,965,250	18,224,296	3,788,392	12,325,487	10,688,398	3,125,851	148,619	705,430	2,809,600
Northwestern Wisconsin Electric Co.	4,419,541	3,378,552	284,963	140,582	98,754	516,690	85,119	8,535	9,225	87,174
Pioneer Power & Light Co.	644,296	535,941	36,528	14,840	13,059	43,928	13,465	1,258	211	14,206
Superior Water, Light & Power Co.	20,957,247	18,301,511	601,607	270,056	629,758	1,154,315	481,149	12,545	29,538	500,781
Wisconsin Electric Power Co.	738,186,637	469,476,023	80,416,548	29,442,115	32,249,874	126,602,077	17,071,564	780,067	16,504,775	2,403,233
Wisconsin Power and Light Co.	293,823,912	174,029,403	31,982,359	11,309,370	23,619,170	52,883,610	7,447,082	293,794	7,674,543	381,677
Wisconsin Public Service Corp.	257,774,736	153,672,342	28,809,661	10,117,000	21,828,546	43,347,187	6,520,725	269,995	6,604,851	629,997
Subtotal	1,595,845,450	1,002,699,679	174,888,903	60,003,833	100,875,220	257,377,815	38,147,391	1,654,690	34,287,105	7,765,445
Class D										
Westfield Milling & Electric Co.	337,732	300,651	19,652	4,197	2,042	11,190	6,493	538	0	7,167
Grand Total	1,596,183,182	1,003,000,330	174,908,555	60,008,030	100,877,262	257,389,005	38,153,884	1,655,228	34,287,105	7,772,612

1/ Data included in this table includes Wisconsin operations only, except where noted.
2/ Includes Interdepartmental Sales and Sales for Resale.
3/ Excluding Off-Peak Water Heating and Area Lighting Customers.
4/ Total company operations are represented in data on generation and purchased companies operating outside Wisconsin are: Lake Superior District Power Co., Northwestern Wisconsin Electric Co., Wisconsin Electric Power Co., and Wisconsin Public Service Corp. Where power is interchanged, the net figure is added to purchase.

TABLE 11

CONDENSED SUMMARY OF 1980 OPERATIONS
INDIVIDUAL MUNICIPAL ELECTRIC UTILITIES 1/

Utilities	Operating Revenues	Operation & Maintenance	Depreciation & Amortization	Taxes Other Than Income Taxes	Net Operating Revenue	Total MWh Sold 1/	Average Number of Customers 2/	MWH Generated	MWH Purchased
Class A, B, and C									
Algoma	1,021,132	952,322	28,246	25,400	15,164	28,983	1,752	0	30,356
Arcadia	925,754	706,861	79,897	48,575	90,421	23,069	1,113	889	22,957
Bangor	912,218	813,020	62,206	24,638	12,354	22,891	1,126	0	26,189
Barron	975,780	800,941	85,321	42,084	47,434	22,603	1,313	1,498	22,233
Black Earth	468,898	404,372	22,795	18,375	23,356	9,284	789	0	9,967
Black River Falls	1,184,373	1,021,413	68,744	53,703	40,513	33,097	2,154	3,342	32,166
Bloomer	1,039,557	934,093	30,979	19,449	55,036	28,756	1,445	0	30,067
Boscobel	956,930	882,399	39,152	22,278	13,101	22,493	1,415	0	24,210
Brodhead	828,025	767,435	25,282	16,581	18,727	20,124	1,476	0	21,482
Cedarburg	3,063,782	2,791,685	133,655	99,875	38,567	77,348	4,164	14,053	67,578
Clintonville	1,453,413	1,364,323	47,930	29,314	11,846	38,923	2,369	0	44,718
Columbus	1,300,433	1,200,024	44,413	29,856	26,140	31,294	1,912	0	33,840
Cuba City	511,642	458,005	24,341	14,212	15,084	11,329	844	0	12,358
Cumberland	1,230,156	772,512	166,471	77,603	213,570	17,652	1,084	855	18,517
Deerfield	353,179	298,588	20,282	12,494	21,815	7,821	595	0	8,462
Eagle River	667,092	620,548	26,863	16,638	3,043	18,534	996	0	19,865
Elkhorn	1,700,190	1,554,456	68,122	40,474	37,138	47,078	2,298	0	50,400
Elroy	395,561	305,348	38,534	19,737	31,942	10,883	776	1	11,144
Evansville	1,472,405	1,328,953	44,764	27,953	70,735	33,176	2,064	0	35,414
Fennimore	776,714	673,275	41,434	20,993	41,012	17,436	1,131	134	19,390
Hartford	2,134,356	1,783,527	56,617	39,807	254,405	53,697	2,875	0	57,091
Hustisford	497,766	437,026	36,603	15,134	9,003	10,645	1,015	0	11,650
Jefferson	2,905,715	2,644,412	59,816	39,375	162,112	85,463	3,176	0	86,534
Juneau	876,836	761,754	43,560	25,199	46,323	21,384	772	0	22,131
Kaukauna	13,757,002	12,172,612	567,389	332,248	684,753	530,002	8,020	106,558	439,362
Kiel	1,088,382	1,013,852	51,188	27,586	(4,244)	27,244	1,530	0	30,720
Lake Mills	1,647,627	1,515,133	68,240	28,973	35,281	42,838	2,482	0	46,032
Lodi	521,632	466,566	19,847	11,397	29,822	12,052	932	0	12,627
Manitowoc	10,580,509	9,560,784	496,115	321,216	202,394	259,721	14,008	70,371	202,394
Marshfield	8,730,274	7,641,610	411,653	294,641	382,370	204,995	9,167	63,092	154,502
Medford	1,958,442	1,738,792	68,949	40,056	110,645	50,308	2,313	0	52,730
Menasha	5,190,994	4,360,411	368,610	263,597	198,376	118,739	6,209	43,674	79,612
Mount Horeb	1,200,575	1,003,902	64,511	32,626	99,536	27,284	1,634	0	28,546
Muscoda	583,585	493,257	34,089	18,732	37,507	10,826	828	0	12,588
New Glarus	497,810	462,506	14,667	7,891	12,746	11,792	818	0	12,768

TABLE 11 (Concluded)

CONDENSED SUMMARY OF 1980 OPERATIONS
INDIVIDUAL MUNICIPAL ELECTRIC UTILITIES 1/

Utilities	Operating Revenues	Operation & Maintenance	Depreciation & Amortization	Taxes Other Than Income Taxes	Net Operating Revenue	Total MWh Sold 1/	Average Number of Customers 2/	MWH Generated	MWH Purchased
New Holstein	1,831,887	1,619,738	63,828	33,684	114,637	43,993	1,879	0	46,044
New Lisbon	503,674	335,419	50,407	32,465	85,383	9,945	687	214	10,332
New London	3,244,770	3,063,552	53,542	54,186	73,490	101,609	2,752	0	105,980
New Richmond	1,129,544	1,121,991	46,846	26,983	(66,276)	33,253	1,951	0	36,744
Oconomowoc	4,060,181	3,566,776	163,720	109,110	220,575	107,295	5,135	0	111,187
Oconto Falls	618,010	544,550	25,834	17,138	30,788	15,341	1,154	0	16,758
Pardeeville	409,176	366,200	15,747	7,648	19,581	9,483	888	50	10,154
Plymouth	4,132,101	3,545,659	220,872	96,340	269,230	96,618	4,966	0	103,944
Prairie Du Sac	515,864	464,505	28,734	15,293	7,332	10,695	962	0	11,844
Reedsburg	2,581,598	2,394,195	54,670	37,379	95,354	68,397	2,473	0	72,104
Rice Lake	2,803,163	2,498,629	151,466	90,363	62,705	76,642	3,825	0	80,758
Richland Center	2,971,824	2,633,496	168,085	112,645	57,598	60,602	2,716	31,413	32,497
River Falls	2,472,777	1,855,563	206,351	104,106	306,757	56,384	3,015	14,785	44,521
Sauk City	864,192	823,775	30,557	15,330	(5,470)	19,557	1,230	0	20,693
Shawano	3,664,810	3,185,134	130,492	72,472	276,712	98,215	3,929	0	102,736
Sheboygan Falls	2,884,525	2,763,487	90,306	37,667	(6,935)	80,744	2,670	0	84,924
Slinger	539,507	510,791	17,881	7,478	3,357	14,797	715	0	15,230
Spooner	611,724	596,444	18,955	9,395	(13,070)	17,095	1,343	0	18,247
Stoughton	2,903,190	2,543,001	113,107	65,669	181,413	69,389	5,156	0	73,091
Sturgeon Bay	3,557,376	3,100,928	284,024	103,758	68,666	86,514	5,816	0	91,812
Sun Prairie	3,080,217	2,751,578	116,007	75,952	136,680	76,120	4,894	0	79,938
Two Rivers	2,521,891	2,320,196	110,079	70,537	21,079	64,421	5,545	0	69,275
Waterloo	984,308	911,422	24,147	17,439	31,300	27,255	1,220	0	28,747
Waunakee	1,218,878	1,096,919	50,149	22,585	49,225	27,361	1,552	0	29,772
Waupun	2,060,388	1,831,331	79,470	36,991	52,596	49,721	3,165	0	51,930
Westby	475,257	411,400	21,067	10,055	32,735	13,049	855	0	14,178
Whitehall	537,957	502,910	22,195	12,445	407	14,676	816	0	15,312
Wisconsin Dells	1,095,630	954,424	49,645	30,977	60,584	23,507	1,533	0	26,016
Wisconsin Rapids	6,313,500	5,688,791	246,466	186,640	191,603	156,344	10,053	0	164,857
Subtotal	133,936,658	118,703,521	6,115,634	3,671,440	5,446,063	3,515,836	169,490	350,929	3,360,225
Class D									
21 Utilities	4,845,537	4,434,310	267,140	136,940	7,147	114,092	10,625	4,250	120,276
Grand Total	138,782,195	123,137,831	6,382,774	3,808,380	5,453,210	3,629,928	180,115	355,179	3,480,501

1/ Includes Interdepartmental Sales and Sales for Resale.
2/ Excluded Off-Peak Water Heating and Area Lighting Customers.

GAS UTILITY SUMMARY

Comparative statistics of the gas utility industry in Wisconsin for the three year period 1980-1978 are presented in this section. The following tables and charts deal with gas utility operations:

Table 12 - Comparative Statement of Revenues and Expenses, 1980-1978.
Table 13 - Sales to Ultimate Consumers by Classes, 1980-1978.
Table 14 - Operating and Plant Statistics, 1980-1978.
Table 15 - Condensed Summary of 1980 Operations - Individual Utilities.

Chart 13 - Comparison of Revenues and Expenses, Wisconsin Gas Utilities, 1971-1980.
Chart 14 - Residential Revenue and Consumption Ratios, Wisconsin Gas Utilities, 1971-1980.
Chart 15 - Revenue of Individual Gas Utilities, Percent of Total Sales to Ultimate Consumers, 1980.

Gas Utility Revenues and Expenses

Table 12 and Chart 13 show that gas utility revenues in 1980 were up about 20.4% from the previous year. Expense rose 21.9% during the same period. Therms sold to ultimate consumers decreased 6.0% while the number of ultimate (retail) consumers increased 3.1%.

Sales to Ultimate Consumers

Table 13 summarizes sales to ultimate consumers. Percentage changes in 1980 by principle classes of service are given below:

	% Change From 1979 to 1980		
	Revenues	Therms Sold	Number of Customers
Residential - General	8.68%	(9.35)%	(11.29)%
Residential - Space Heating	24.41	(1.57)	5.42
Commercial and Industrial - Firm	15.95	(9.80)	(7.14)
Commercial and Industrial - Interr.	12.75	(12.63)	(2.72)
Commercial and Industrial - Sp. Htg.	31.77	2.67	5.80
Total Sales to Ultimate Consumers	20.66%	(6.01)%	3.06%

The number of residential space heating customers rose 5.42% during 1980. Since many of these customers formerly took service as residential general customers, a decline occurred in the number served in that classification. Commercial and industrial space heating customers rose while there was a decline in firm and interruptible customers. Overall the number of commercial and industrial customers was up about 4%.

The decline in therms sold to residential-general consumers was due to the reduction in customers.

CHART 13
WISCONSIN GAS UTILITIES REVENUES AND EXPENSES

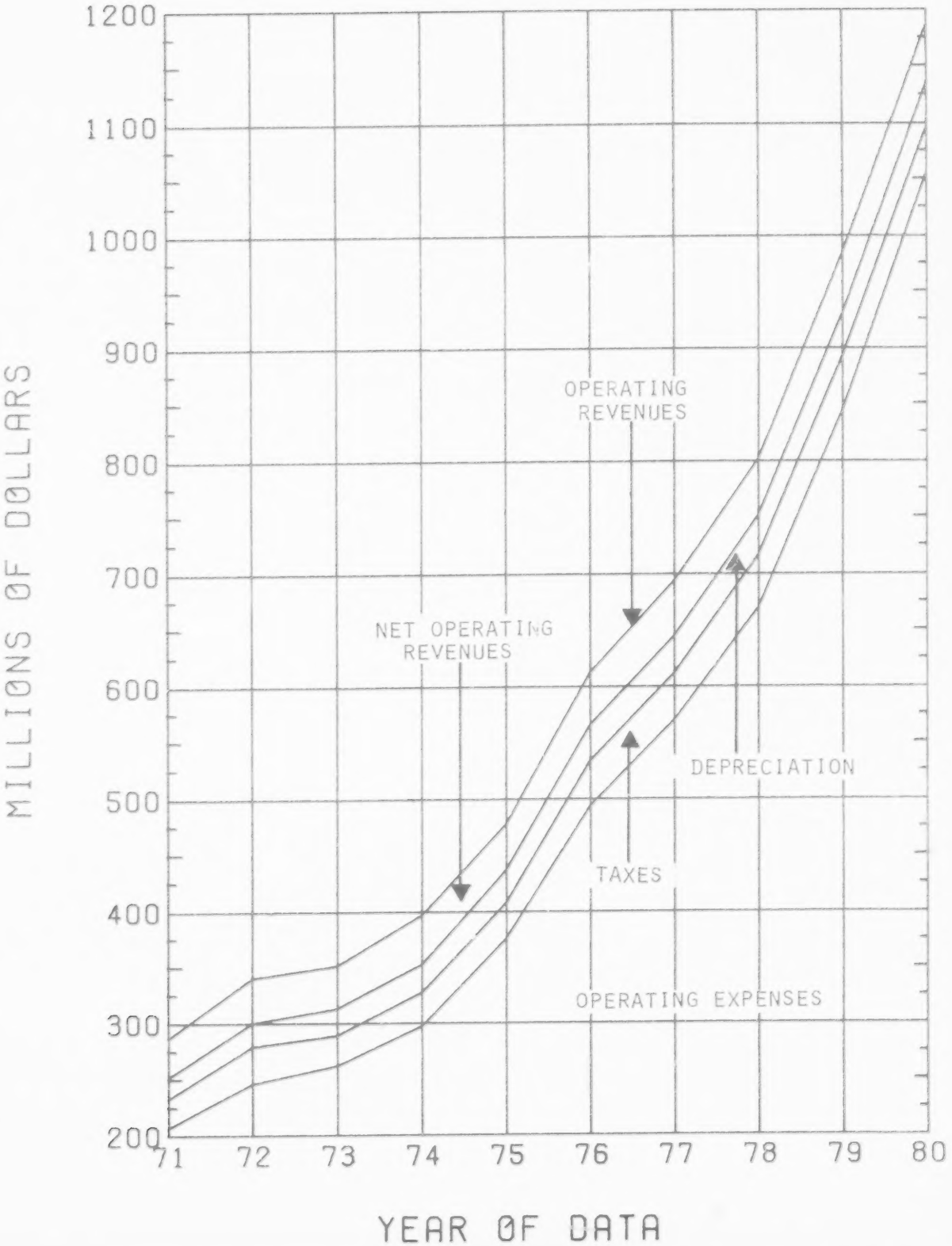
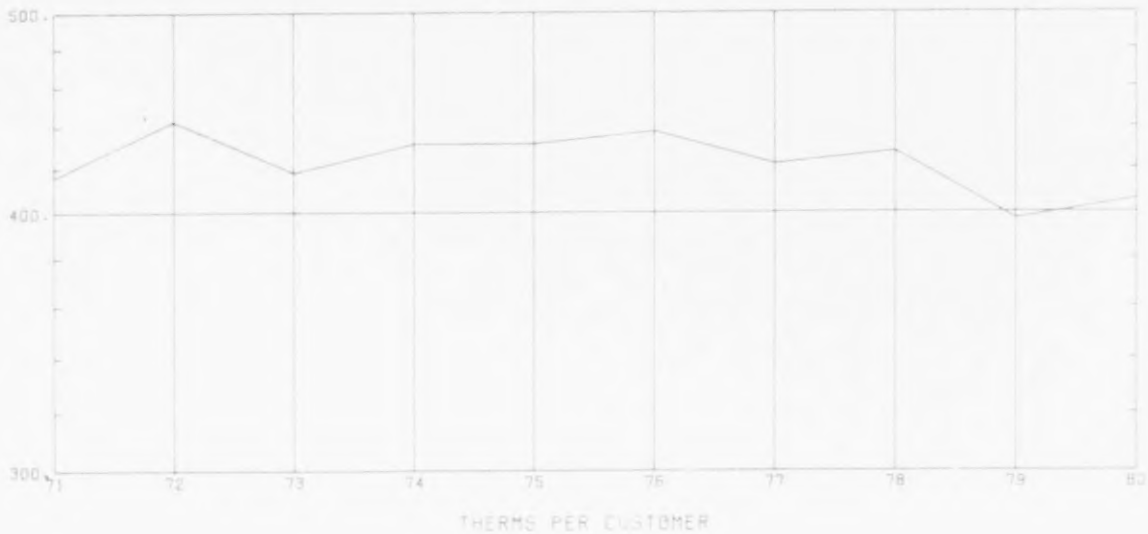
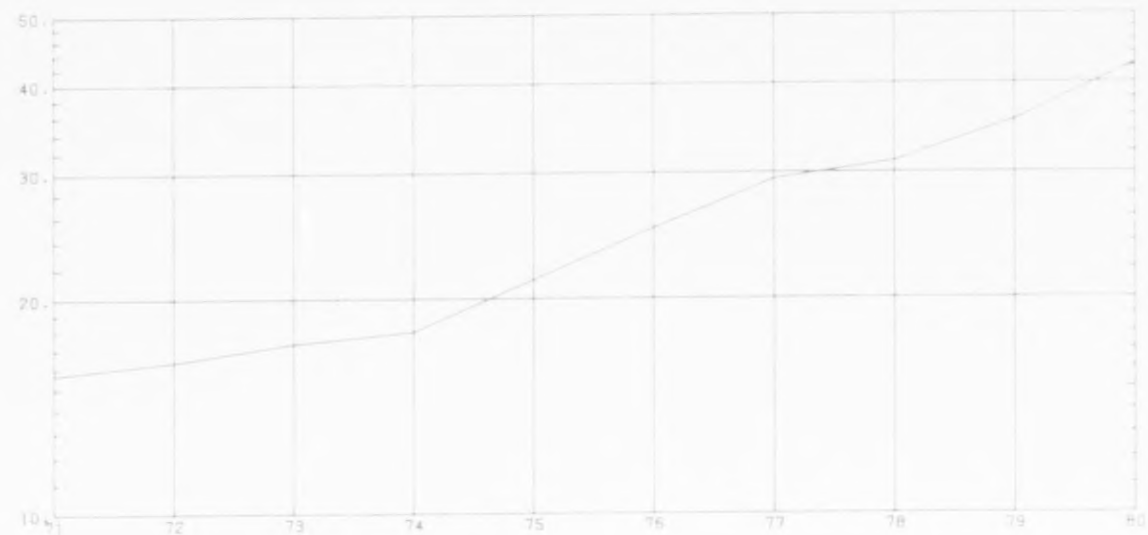


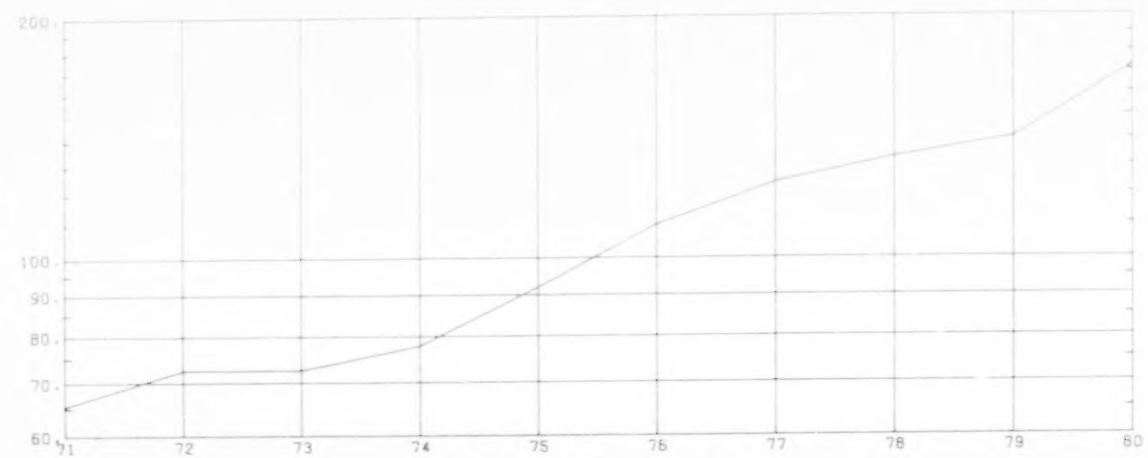
CHART 14
GAS UTILITY RESIDENTIAL REVENUE AND CONSUMPTION RATIOS



THERMS PER CUSTOMER



REVENUE PER THERM

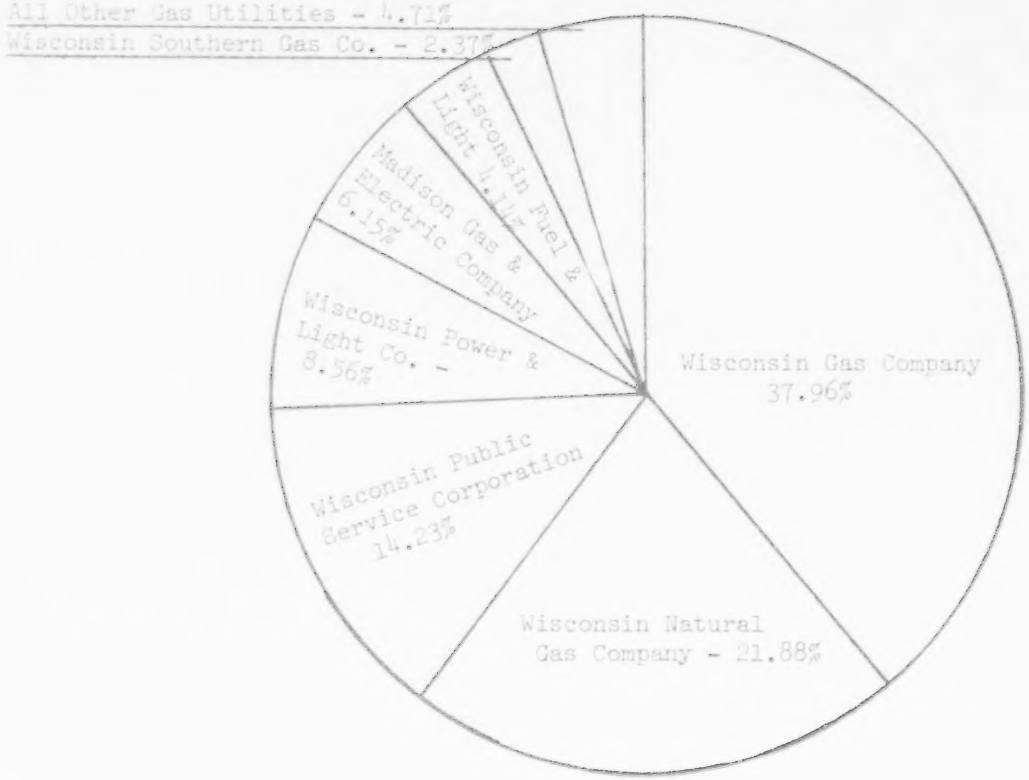


(RATIO SCALES)

REVENUE PER CUSTOMER

CHART 15

Revenues of Wisconsin Gas Utilities
In Percent of Total Sales to Ultimate Consumers
1980


All Other Gas Utilities - 4.71%
Wisconsin Southern Gas Co. - 2.37%
Wisconsin Fuel & Light Co. - 1.11%
Madison Gas & Electric Company 6.15%
Wisconsin Power & Light Co. - 8.56%
Wisconsin Public Service Corporation 14.23%
Wisconsin Natural Gas Company - 21.88%
Wisconsin Gas Company 37.96%

1/ Northern States Power Co. - 2.30%
Lake Superior District Power Co. - 0.86
Superior Water, Light & Power Co. - 0.67
City Gas of Antigo - 0.30
Class C Private - 0.28
Midwest Natural Gas Co. - 0.24
Municipal (Muny) - 0.06

Revenue and Consumption Ratios

The following table shows average revenue per therm, therms sold per customer and revenue per customer for each of the principle classes of service.

	1980	1979	1978
Revenue Per Therm			
Residential - General	42.5¢	35.5¢	31.1¢
Residential - Space Heating	37.8	29.9	26.3
Commercial and Industrial - Firm	32.6	25.4	21.3
Commercial and Industrial - Interruptible	30.1	23.4	19.8
Commercial and Industrial - Space Heating	34.5	26.9	23.6
Therms Per Customer			
Residential - General	406	397	428
Residential - Space Heating	1,437	1,539	1,577
Commercial and Industrial - Firm	48,158	49,575	44,346
Commercial and Industrial - Interruptible	644,076	717,190	582,712
Commercial and Industrial - Space Heating	8,829	9,098	9,213
Revenue Per Customer			
Residential - General	$ 173	$ 141	$ 133
Residential - Space Heating	544	461	415
Commercial and Industrial - Firm	15,707	12,579	9,460
Commercial and Industrial - Interrupt.	194,163	167,529	115,203
Commercial and Industrial - Space Heating	3,049	2,448	2,173

Revenue per therm increased for all customer classifications in 1980. Therms sold per customer increased only for Residential General use. All other classifications showed a decline. Revenue per customer increased for all classes. Chart 14 presents a comparison of average residential bills and consumption over a 10-year period. Although consumption has remained relatively constant in recent years the cost per therm and the total bills have increased sharply.

Gas Utility Plant Statistics

Table 14 supplies a summary of operating and plant statistics of the gas utility industry in Wisconsin. Over 99.9% of the 3,441 million therms delivered to mains in 1980 was natural gas. Almost 19,039 miles of main were in service at the close of 1980, exclusive of that owned by the pipeline companies. This represents a 1.8% increase over a year earlier.

Data on Individual Utilities

Individual company statistics for 1980 are presented in Table 15. Chart 15 shows a breakdown by company fo total sales to ultimate consumers. The Wisconsin Gas Company accounted for 38.0% of total sales revenue from ultimate consumers and the five largest utilities made up 88.8% of the total.

TABLE 12

COMPARATIVE STATEMENT OF REVENUES AND EXPENSES
WISCONSIN GAS UTILITIES 1/
1980-1978

	1980	1979	1978
Operating Revenues			
Sales to Ultimate Consumers	$1,174,687,366	$973,569,574	$790,733,893
Sales to Other Gas Utilities	2,562,392	2,436,277	2,376,068
Total Sales of Gas	$1,177,249,758	$976,005,851	$793,109,961
Other Operating Revenues	8,939,464	9,426,515	8,510,573
Total Operating Revenues	$1,186,189,222	$985,432,366	$801,620,534
Operating Expenses			
Production			
Liquified Petroleum Gas	$ 200,743	$ 667,754	$ 313,835
Purchased Gas - Natural	939,833,682	742,969,549	579,283,963
Storage	766,231	573,234	535,778
Total Production and Expense	$ 940,800,656	$744,210,537	$580,133,576
Transmission and Distribution	44,168,981	38,144,370	34,538,819
Customer Accounts	21,425,481	19,827,145	17,415,328
Customer Services	8,382,282	7,167,999	6,078,232
Sales Promotion	893,245	748,998	556,569
Administrative and General	39,900,405	35,398,498	31,174,007
Total Operation and Maintenance	$1,055,571,050	$845,497,547	$669,896,531
Depreciation 2/	38,656,219	37,690,000	34,654,460
Taxes Other than Income Taxes	16,093,733	16,187,926	17,029,659
Income Taxes	25,101,885	31,872,769	29,853,239
Total Operating Expenses	$1,135,422,887	$931,248,242	$751,433,889
Net Operating Revenues	$ 50,766,335	$ 54,184,124	$ 50,186,645

1/ Excluding out-of-state operations except where noted.
2/ Including amortization of plant acquisition adjustments, conversion costs, and other utility plant not subject to charges for depreciation.

TABLE 13

SALES TO ULTIMATE CUSTOMERS BY CLASSES
WISCONSIN GAS UTILITIES 1/
1980-1978

	1980	1979	1978
Revenue from Gas Sold to Ultimate Consumers			
Residential - General	$ 20,619,554	$ 18,972,830	$ 19,153,052
Residential - Space Heating	451,685,890	363,066,244	314,912,019
Commercial and Industrial - Firm	169,337,129	146,037,983	120,335,823
Commercial and Industrial - Interruptible	285,226,088	252,968,438	179,140,740
Commercial and Industrial - Space Heating	233,801,620	177,432,355	149,864,605
Interdepartmental	14,017,085	15,091,724	7,327,654
Total	$1,174,687,366	$ 973,569,574	$ 790,733,893
Therms of Gas Sold to Ultimate Consumers			
Residential - General 2/	48,478,107	53,476,442	61,552,936
Residential - Space Heating	1,193,977,127	1,212,995,487	1,197,954,760
Commercial and Industrial - Firm	519,187,164	575,571,186	564,080,413
Commercial and Industrial - Interruptible	946,148,251	1,082,957,321	906,116,778
Commercial and Industrial - Space Heating	676,934,740	659,356,934	635,495,860
Interdepartmental	50,381,039	70,375,534	37,123,771
Total	3,435,106,428	3,654,732,904	3,402,324,518
Average Number of Customers			
Residential - General 2/	119,492	134,701	143,747
Residential - Space Heating	830,709	788,026	759,599
Commercial and Industrial - Firm	10,781	11,610	12,720
Commercial and Industrial - Interruptible	1,469	1,510	1,555
Commercial and Industrial - Space Heating	76,673	72,472	68,977
Interdepartmental	9	9	9
Total	1,039,133	1,008,328	986,607

1/ Excluding out-of-state operations.
2/ The decline in residential consumption and customers is due to the transfer of residential customers to the space heating classification when gas furnaces are installed.

TABLE 14

OPERATING AND PLANT STATISTICS
WISCONSIN GAS UTILITIES 1/
1980-1978

	1980	1979	1978
Disposition of Gas Delivered to Mains (Therms)			
Gas Sold in Wisconsin			
To Ultimate Consumers	3,435,106,428	3,654,732,904	3,402,324,518
To Other Gas Utilities	11,895,000	12,174,911	13,354,747
Total	3,447,001,428	3,666,907,815	3,415,679,265
Gas Used by Company	6,328,768	6,630,404	7,406,361
Total Sold and Used	3,453,330,196	3,673,538,219	3,423,085,626
Gas Unaccounted for	(12,168,827)	(20,566,925)	6,836,078
Gas Delivered to Mains	3,441,161,369	3,652,971,294	3,429,921,704
Percentage of Gas Unaccounted for	(0.35)%	(0.56)%	0.20%
Gas Produced (Therms)			
Liquefied Petroleum Gas	103,782	1,150,374	345,845
Natural Gas Purchased (Therms)			
From Michigan-Wisconsin Pipe Line Company	3,055,271,141	3,269,755,770	3,051,340,811
From Natural Gas Pipe Line Co.	77,930,015	78,654,914	81,935,868
From Midwest Gas Transmission Company	38,782,622	46,938,863	42,180,283
From Northern Natural Gas Company	268,487,535	256,033,355	257,388,173
Total Natural Gas Purchased	3,440,471,313	3,651,382,902	3,432,845,135
Total Gas Produced and Purchased	3,440,575,095	3,652,533,276	3,433,190,980
Net Inventory Change	586,274	438,018	(3,269,276)
Gas Delivered to Mains	3,441,161,369	3,652,971,294	3,429,921,704
Miles of Distribution and Transmission Mains	19,039	18,711	18,496

1/ Excluding out-of-state operations.
2/ Not including transmission mains owned by pipeline companies.

TABLE 15

CONDENSED SUMMARY OF 1980 OPERATIONS
INDIVIDUAL GAS UTILITIES 1/

Utilities	Operating Revenue 2/	Operation & Maintenance	Depreciation & Amortization	Taxes Other Than Income Taxes	Income Taxes	Net Operating Revenues	Therms Sold 2/	Therms Produced	Therms Purchased 3/	Therms Produced and Purchased	Average Number of Customers 2
Class A and B											
City Gas Co. of Antigo	$ 3,526,068	$ 3,303,012	$ 58,428	$ 32,410	$ 44,525	$ 87,693	10,389,588	0	10,196,731	10,196,731	3,196
Lake Superior District Power Co.	10,258,306	9,715,855	171,553	112,378	72,720	185,800	41,328,997	0	41,589,134	41,589,134	6,518
Madison Gas & Elec. Co.	72,937,060	61,548,330	3,598,698	1,273,145	1,986,792	4,530,095	200,338,252	0	200,825,560	200,825,560	64,882
Midwest Natural Gas Co.	2,897,800	2,572,607	101,399	39,936	70,600	113,258	10,667,401	159	10,448,435	10,448,594	3,255
Northern States Power Co.	27,288,023	23,874,455	1,142,720	341,952	913,369	1,015,527	69,217,565	0	71,105,647	71,105,647	30,112
Superior Water, Light & Power Co.	7,890,894	7,036,130	329,967	136,855	153,566	234,376	25,613,353	7,328	26,971,280	26,978,608	8,902
Wisconsin Fuel & Light Co.	49,062,104	45,952,658	926,767	437,736	719,062	1,025,881	153,115,410	0	152,660,455	152,660,455	36,204
Wisconsin Gas Company	450,284,333	396,750,705	15,459,147	6,144,185	12,087,538	19,842,758	1,281,908,000	0	1,277,362,406	1,277,362,406	399,043
Wisconsin Natural Gas Company	259,519,920	233,973,026	8,348,061	3,442,615	3,362,421	10,393,797	768,355,468	0	768,277,632	768,277,632	208,543
Wisconsin Power & Light Co.	101,530,566	90,529,245	3,641,631	1,423,758	1,581,231	4,354,701	281,031,000	1,307	276,788,784	276,790,091	95,246
Wisconsin Public Service Corp.	168,852,670	152,278,712	3,880,545	2,227,400	3,390,456	7,075,557	505,165,180	0	503,126,925	503,126,925	143,559
Wisconsin Southern Gas Co.	28,085,579	24,329,366	883,829	425,810	683,729	1,762,845	85,049,328	1,811	86,324,016	86,325,827	35,900
Subtotal	$1,182,133,323	$1,051,864,101	$38,542,745	$16,038,180	$25,066,009	$50,622,288	3,432,179,542	10,605	3,425,677,005	3,425,687,610	1,035,360
Class C & D											
Elroy Gas, Inc.	584,310	550,456	13,695	11,279	(226)	9,106	1,979,452	0	1,969,170	1,969,170	414
Muny Natural Gas Co. 4/	744,171	705,988	14,738	11,639	0	11,806	3,062,906	0	3,005,890	3,005,890	593
Natural Gas. Inc.	781,445	696,695	21,276	0	12,902	50,572	2,653,373	0	2,685,360	2,685,360	508
St. Croix Valley Natural Gas Co.	1,945,973	1,753,810	63,765	32,635	23,200	72,563	7,126,155	93,177	7,130,976	7,224,153	2,258
Subtotal	$ 4,055,899	$ 3,706,949	$ 113,474	$ 55,553	$ 35,876	$ 144,047	14,821,886	93,177	14,791,396	14,884,573	3,773
Total All Utilities	$1,186,189,222	$1,055,571,050	$38,656,219	$16,093,733	$25,101,885	$50,766,335	3,447,001,428	103,782	3,440,468,401	3,440,572,183	1,039,133

() Denotes Negative Figure.
1/ Data includes Wisconsin operations only.
2/ Includes Interdepartmental Sales and Sales for Resale.
3/ Out-of-state sales by Lake Superior District Power and Wisconsin Public Service Corporation were subtracted from the therms purchased figure to give an estimated figure for Wisconsin only.
4/ Municipally owned.

TELEPHONE UTILITY SUMMARY

Comparative statistics of telephone utilities in Wisconsin during the period 1980-1978 are presented in this session. In addition, selected data over a 10-year period are presented in Chart 16. The coverage is summarized below:

Table 16 - Comparative Statement of Revenues and Expenses, Wisconsin Telephone Utilities, 1980-1978
Table 17 - Stations served and Miles of Pole Lines, Wisconsin Telephone Utilities, 1980-1978
Table 18 - Condensed Summary of 1980 Operations, Individual Telephone Utilities

Chart 16 - Comparison of Revenues and Expenses, Wisconsin Telephone Utilities, 1971-1980

Telephone Utility Revenues and Expenses

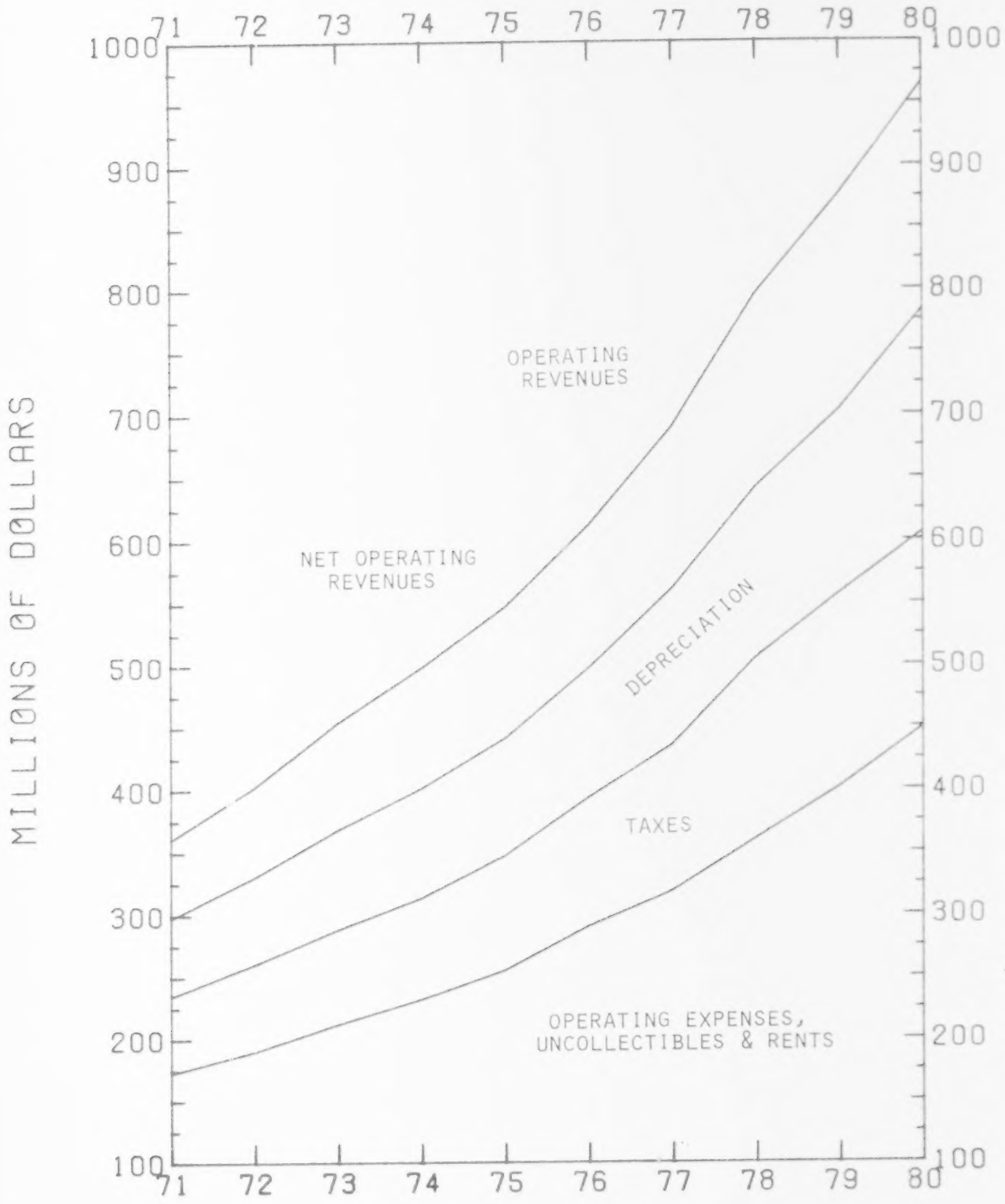
Table 16 shows that telephone revenues in Wisconsin rose over $89.9 million in 1980, a rise of 10.3%. Total operating expenses were up about $81.0 million and net operating revenue rose about $8.9 million or 5.1%.

Toll service revenues increased more rapidly than local service revenues during the year, rising 12.3% as compared to 7.5%. All major categories of expense rose during the year. General and miscellaneous showed the greatest increase with 14.37% followed by commercial expense with 14.35%. Traffic expense had a decrease of (0.31)%.

Operating revenues, operating expenses, and net operating revenues are compared below on a per station basis over a 10-year period. These ratios are based on the average number of stations for each year.

Year	Total Operating Revenue Per Station	Total Operating Expense Per Station	Net Operating Revenue Per Station
1980	$ 271.10	$ 220.00	$ 51.10
1979	251.35	201.66	49.69
1978	234.21	188.94	45.27
1977	210.18	170.96	39.22
1976	195.33	158.71	36.63
1975	183.44	147.81	35.63
1974	174.65	140.68	33.96
1973	166.43	135.04	31.39
1972	155.60	127.95	27.65
1971	146.19	120.80	25.40

CHART 16
WISCONSIN TELEPHONE UTILITIES REVENUES AND EXPENSES



Station Data

Station data is presented in Table 17. About 3,566,000 stations were in service at the close of 1980, 2.2% more than in the preceding year. Extension stations accounted for 34.3% of the total and another 11.6% are connected to private branch or centrex exchange systems. Main stations totaled about 1,930,900 in 1980.

Station growth over the last ten years is analyzed below:

	Index Numbers of Telephones in Service 1971-100			
Year	Main	PBX	Extension	Total
1980	128	138	183	144
1979	126	133	179	141
1978	123	132	173	137
1977	119	127	165	133
1976	116	123	154	127
1975	113	118	140	121
1974	109	116	129	115
1973	106	111	119	110
1972	103	106	110	105
1971	100	100	100	100

Individual Companies

Table 18 presents individual company data for each of the 108 companies operating in the State. The Wisconsin Telephone Company alone accounted for 71.2% of the revenues and served 68.7% of the stations. General Telephone Company accounted for another 15.7% of the total revenues and served 14.8% of the stations.

United Telephone Company data was not included in the total data due to insufficient information filed by the utility for the calendar year 1980.

TABLE 16

COMPARATIVE STATEMENT OF REVENUES AND EXPENSES
WISCONSIN TELEPHONE UTILITIES
1980-1978

	1980	1979	1978
Operating Revenues			
Exchange Service Revenue	$448,392,456	$417,084,633	$390,621,740
Toll Service Revenue	460,724,547	410,242,451	364,451,446
Miscellaneous Operating Revenue	57,650,593	49,486,876	42,796,879
Total Operating Revenues	$966,767,596	$876,813,960	$797,870,065
Operating Expenses			
Maintenance Expense	$169,603,320	$150,694,090	$135,834,040
Traffic Expense	40,245,988	40,372,609	39,139,053
Commercial Expense 1/	93,972,705	82,177,215	70,341,531
General and Miscellaneous Expense	133,326,242	116,571,604	106,098,072
General Services and Licenses	13,280,219	12,076,853	10,072,566
Total Operation and Maintenance	$450,428,474	$401,892,371	$361,485,262
Depreciation and Amortization	176,666,078	146,001,613	136,697,870
Taxes Other than Income Taxes	82,030,752	73,583,278	67,197,524
Income Taxes	75,412,454	82,011,064	78,275,976
Total Operating Expenses	$784,537,758	$703,488,326	$643,656,632
Net Operating Revenue	$182,229,838	$173,325,634	$154,213,433

1/ Includes uncollectible bills.

TABLE 17

STATIONS SERVED BY WISCONSIN
TELEPHONE COMPANIES
1980-1978

	December 31, 1980	December 31, 1979	December 31, 1978
Main Stations 1/	1,930,953	1,897,686	1,860,527
Centrex and PBX Stations	413,479	399,102	395,086
Extension Stations	1,221,674	1,191,688	1,151,041
Total Stations	3,566,106	3,488,476	3,406,654

1/ Includes pay, private line and mobile stations.

TABLE 18

A SUMMARY OF 1980 OPERATIONS

FOR INDIVIDUAL TELEPHONE UTILITIES

UTILITY	OPERATING REVENUE	OPERATION AND MAINTENANCE	DEPN. AND AMORT.	TAXES OTHER THAN INCOME TAXES	INCOME TAXES	TOTAL OPERATING EXPENSE	NET OPERATING REVENUE	TOTAL STATIONS CLOSE OF YEAR
AMERY TELEPHONE COMPANY	1,131,012	466,746	363,744	80,751	31,014	942,256	188,756	6,372
AMHERST TELEPHONE COMPANY	773,521	273,808	242,117	46,817	-8,808	553,934	219,587	4,077
BADGER TELEPHONE COMPANY INC	470,645	190,853	98,909	28,824	46,042	364,627	106,017	1,847
BADGER STATE TELEPHONE COMPANY,INC	1,309,113	513,860	250,744	93,256	151,039	1,008,899	300,214	5,897
BALDWIN TELEPHONE EXCHANGE	619,824	218,471	193,226	42,522	10,490	464,709	155,115	3,858
BAYLAND TELEPHONE INC	277,881	135,066	68,992	17,167	3,700	224,926	52,955	1,613
BELMONT TELEPHONE COMPANY	186,745	88,995	39,247	7,944	4,557	140,744	46,001	1,075
BERGEN TELEPHONE COMPANY	38,418	23,149	9,985	1,042	1,072	35,168	3,250	286
BLACK EARTH TELEPHONE COMPANY	290,634	123,141	47,234	15,783	43,574	229,731	60,903	1,592
BLOOMER TELEPHONE COMPANY	460,794	149,185	108,580	28,395	56,869	343,030	117,765	3,638
BONDUEL TELEPHONE COMPANY	410,184	188,631	63,987	24,314	60,062	336,994	73,190	2,266
BRUCE TELEPHONE COMPANY, INC	276,850	136,875	35,518	17,594	4,609	194,596	82,254	1,605
BURLINGTON BRIGHTON & WHEATLAND TEL	798,587	392,564	113,617	48,639	76,051	630,871	167,715	3,941
CASCO TELEPHONE COMPANY	262,799	106,101	81,288	14,923	10,458	212,770	50,029	1,388
CENCOM OF WISCONSIN, INC	5,201,605	2,144,845	1,055,015	437,681	426,266	4,063,808	1,137,797	22,789
CENTRAL STATE TELEPHONE COMPANY	2,379,550	979,931	477,903	173,272	189,360	1,820,466	559,084	8,966
CHEQUAMEGON TELEPHONE COOP INC	2,015,324	765,463	961,218	171,061	0	1,897,743	117,581	6,940
CHIBARDUN TELEPHONE COOPERATIVE INC	1,093,015	521,316	479,635	78,004	0	1,078,955	14,060	6,869
CHIPPEWA COUNTY TELEPHONE INC	669,556	280,025	173,881	35,451	51,842	541,199	128,357	3,545
CITIZENS TELEPHONE COOPERATIVE INC	318,547	119,324	90,681	16,140	0	226,145	92,402	2,078
CLEAR LAKE TELEPHONE COMPANY, INC	280,907	161,596	92,993	18,298	-1,583	271,305	9,602	1,669
COCHRANE COOPERATIVE TELEPHONE CO	191,446	89,935	49,789	11,406	0	151,130	40,316	1,410
COON VALLEY FARMERS TELEPHONE CO	266,825	123,202	71,008	14,687	8,794	217,691	49,134	2,608
CRANDON TELEPHONE COMPANY	597,877	258,127	181,514	41,310	11,436	484,387	113,490	2,589
CREAM VALLEY TELEPHONE COMPANY	824,755	273,517	205,765	56,020	134,394	669,696	155,059	2,900
CUBA CITY TELEPHONE EXCHANGE COMPANY	430,033	166,819	73,674	28,590	34,104	303,186	126,907	2,303
DICKEYVILLE TELEPHONE CORPORATION	231,328	115,409	57,691	11,173	5,414	189,687	41,641	1,405
DODGE COUNTY TELEPHONE COMPANY	290,368	161,875	52,654	15,237	19,927	248,894	41,474	1,374
FAIRWATER BRANDON ALTO TELEPHONE CO	317,882	148,099	96,065	21,234	55	265,453	52,429	1,670
FARMERS INDEPENDENT TELEPHONE CO	460,213	185,496	113,820	28,665	33,286	361,266	98,947	2,850
FARMERS TELEPHONE COMPANY	1,501,193	487,480	408,570	136,086	111,705	1,135,841	365,352	7,866
FENNIMORE TELEPHONE COMPANY	396,132	216,498	75,322	24,482	21,722	338,024	58,108	2,836
FOOTVILLE TELEPHONE COMPANY	216,150	106,649	53,575	12,693	-2,459	170,458	45,692	1,204
FORESTVILLE TELEPHONE COMPANY, INC	363,800	172,848	110,663	18,658	16,019	318,188	45,612	2,201
FREDERIC TELEPHONE COMPANY	1,075,739	491,886	292,233	92,213	60,863	937,194	138,545	2,263

TABLE 18 (CONTINUED)

UTILITY	OPERATING REVENUE	OPERATION AND MAINTENANCE	DEPN. AND AMORT.	TAXES OTHER THAN INCOME TAXES	INCOME TAXES	TOTAL OPERATING EXPENSE	NET OPERATING REVENUE	TOTAL STATIONS CLOSE OF YEAR
GENERAL TELEPHONE COMPANY OF WISC	151,763,672	61,069,198	35,379,940	12,729,233	9,439,437	118,617,808	33,145,864	528,887
GREENWOOD TELEPHONE COMPANY	387,144	181,909	70,225	22,166	43,997	318,297	68,846	2,062
HAGER CITY TELEPHONE COMPANY	417,186	247,938	162,831	26,434	-2,507	434,696	-17,510	2,371
HAMMOND TELEPHONE COMPANY	177,508	136,958	36,585	9,679	-18,162	165,060	12,449	1,099
HEADWATERS TELEPHONE COMPANY	1,656,313	446,704	301,008	133,698	248,442	1,129,852	526,462	4,113
HILLSBORO TELEPHONE COMPANY INC	396,695	181,873	107,989	25,757	3,864	319,483	77,212	1,940
LA CROSSE TELEPHONE CORPORATION	14,201,103	6,510,136	3,133,977	1,218,128	471,391	11,333,632	2,867,470	64,773
LAKEFIELD TELEPHONE COMPANY	286,122	125,490	63,708	15,691	4,156	209,045	77,077	1,785
LAKELAND TELEPHONE COMPANY	872,406	303,682	179,998	62,514	154,621	700,816	171,591	2,954
LAKESHORE TELEPHONE COMPANY	423,354	171,648	121,867	25,664	20,838	340,017	83,337	1,742
LARSEN-READFIELD TELEPHONE COMPANY	485,082	189,597	121,793	29,100	44,727	385,218	99,864	2,697
LA VALLE TELEPHONE COOPERATIVE, INC	315,699	157,237	87,663	18,206	0	263,106	52,593	1,904
LEMONWEIR VALLEY TELEPHONE COMPANY	512,524	235,879	84,214	33,791	27,636	381,520	131,004	3,060
LUCK TELEPHONE COMPANY	371,523	150,767	120,393	21,655	4,905	297,721	73,803	2,291
MADELINE ISLAND TELEPHONE COMPANY	52,455	36,754	7,822	3,318	709	47,803	4,653	343
MANAWA TELEPHONE COMPANY, INC	639,595	218,789	140,324	43,853	45,513	448,480	191,115	2,527
MAPLE TELEPHONE COOPERATIVE, INC	67,137	33,073	11,286	4,598	0	48,957	18,180	363
MARQUETTE ADAMS TELEPHONE COOP INC	636,972	259,050	186,506	41,805	84	487,445	149,527	3,042
MID-PLAINS TELEPHONE INCORPORATED	4,047,089	1,517,945	1,181,317	345,107	149,421	3,193,790	853,299	19,451
MIDWAY TELEPHONE COMPANY	2,266,310	695,062	495,629	160,713	285,447	1,637,752	628,558	8,335
MILLTOWN MUTUAL TELEPHONE COMPANY	354,947	165,198	158,288	20,993	-1,082	343,396	11,551	2,122
MONDOVI TELEPHONE COMPANY	585,674	283,739	163,333	39,865	6,356	493,292	92,381	3,123
MONROE COUNTY TELEPHONE COMPANY	2,816,565	1,336,791	467,526	253,063	250,527	2,307,907	508,658	11,898
MOSEL CENTERVILLE TELEPHONE COMPANY	865,051	405,203	171,594	53,187	78,212	708,196	156,855	5,011
MOSINEE TELEPHONE COMPANY	825,558	422,860	246,554	61,738	4,682	735,834	89,725	4,666
MOUNT HOREB TELEPHONE COMPANY	708,259	309,319	138,385	46,414	36,427	530,545	177,714	4,463
MOUNT VERNON TELEPHONE COMPANY	1,826,336	880,372	249,548	111,704	210,349	1,451,972	374,364	7,443
NELSON TELEPHONE COOPERATIVE	902,414	409,255	285,429	58,631	0	753,315	149,099	5,064
NIAGARA TELEPHONE COMPANY	674,443	410,756	174,594	50,117	-22,779	612,689	61,754	4,196
NORTHEAST TELEPHONE COMPANY	1,118,535	433,918	310,096	72,873	47,392	864,279	254,256	6,051
NORTH-WEST TELEPHONE COMPANY	20,075,185	7,117,250	5,246,652	1,703,585	1,030,305	15,097,792	4,977,393	73,813
NOVYS TELEPHONE COMPANY	80,900	38,476	17,012	6,792	0	62,281	18,620	688
OGEMA TELEPHONE COMPANY	219,409	128,331	53,625	10,126	3,208	201,290	18,119	1,254
OSCEOLA TELEPHONE COMPANY	721,818	265,467	166,146	45,809	74,693	552,115	169,702	3,201
PEOPLES TELEPHONE CO	505,643	216,277	110,202	25,135	60,527	412,141	93,502	2,468

TABLE 18 (CONTINUED)

UTILITY	OPERATING REVENUE	OPERATION AND MAINTENANCE	DEPN. AND AMORT.	TAXES OTHER THAN INCOME TAXES	INCOME TAXES	TOTAL OPERATING EXPENSE	NET OPERATING REVENUE	TOTAL STATIONS CLOSE OF YEAR
PEOPLES TELEPHONE CO OF RIO, INC.	1,150,617	590,057	283,556	86,948	24,130	984,691	165,927	7,620
PLATTEVILLE TELEPHONE COMPANY	3,675,831	1,578,988	614,506	351,879	275,911	2,821,284	854,548	10,267
POPLAR TELEPHONE COMPANY INC	201,935	81,827	42,244	9,361	26,112	159,543	42,392	827
INDIANHEAD TELEPHONE CO.	644,237	214,948	171,063	48,197	57,304	491,511	152,726	1,799
PRICE COUNTY TELEPHONE COMPANY	1,146,186	350,681	250,761	89,606	145,587	836,634	309,552	3,859
RHINELANDER TELEPHONE COMPANY	2,612,384	1,069,233	620,538	216,244	188,642	2,094,657	517,727	14,942
RIB LAKE TELEPHONE COMPANY	274,567	125,834	59,689	16,191	13,405	215,120	59,448	1,291
RICHLAND GRANT TELEPHONE COOPERATIVE	566,914	301,885	159,663	37,483	0	499,031	67,884	3,351
ROCK RIVER TELEPHONE COMPANY	423,611	207,598	110,235	28,398	3,283	349,514	74,097	2,075
ST CROIX TELEPHONE COMPANY	1,315,093	439,921	365,366	114,345	155,945	1,075,577	239,516	7,549
SCANDINAVIA TELEPHONE COMPANY	666,980	212,236	114,430	41,129	123,219	491,014	175,966	2,367
SHARON TELEPHONE COMPANY	254,266	166,776	37,457	17,406	6,312	227,951	26,314	1,454
SHELL LAKE TELEPHONE COMPANY	463,911	180,522	119,380	32,752	39,169	371,823	92,088	2,494
SIREN TELEPHONE COMPANY INCORPORATED	303,248	150,259	69,853	19,874	14,456	254,452	48,796	1,831
SOLON SPRINGS TELEPHONE COMPANY	865,111	334,014	209,335	55,621	102,590	701,560	163,551	3,312
SOMERSET TELEPHONE COMPANY, INC	268,854	127,983	62,186	17,586	5,985	213,740	55,113	1,399
SOUTHEAST TELEPHONE CO OF WISC, INC	1,295,292	575,396	334,505	96,997	12,524	1,019,423	275,869	7,905
SPRING VALLEY TELEPHONE COMPANY, INC	194,102	92,779	37,183	10,327	10,483	150,772	43,330	1,234
STATE LONG DISTANCE TELEPHONE CO	1,763,847	765,060	302,986	154,338	148,254	1,370,639	393,208	9,248
STOCKBRIDGE & SHERWOOD TELEPHONE CO	689,590	302,262	120,373	39,862	109,776	572,273	117,316	3,000
SULLIVAN TELEPHONE COMPANY	370,950	164,760	95,582	26,571	14,726	301,639	69,311	2,132
TENNEY TELEPHONE COMPANY	210,181	83,457	52,317	12,876	14,290	162,940	47,241	1,289
THORP TELEPHONE COMPANY	706,065	354,752	137,314	54,050	21,981	568,097	137,969	2,912
TRI-COUNTY TELEPHONE COOP, INC	842,268	451,359	259,380	57,551	0	768,290	73,978	4,930
TURTLE LAKE TELEPHONE COMPANY INC	281,059	126,233	63,149	16,145	-520	205,007	76,052	1,423
UNION TELEPHONE COMPANY	559,309	235,628	193,423	37,329	3,860	470,239	89,069	3,915
UNIVERSAL TEL CO OF NORTHERN WIS INC	1,543,863	526,849	340,612	117,420	153,787	1,138,669	405,194	5,486
URBAN TELEPHONE CORPORATION	3,985,146	1,744,124	881,923	348,423	260,824	3,235,295	749,851	23,006
VALDERS TELEPHONE COMPANY	598,098	279,968	108,763	35,040	69,542	493,313	104,785	3,006
VERNON TELEPHONE COOPERATIVE	1,136,832	579,065	377,047	81,525	0	1,037,637	99,195	8,237
VIROQUA TELEPHONE COMPANY	1,293,926	570,930	315,116	114,857	54,919	1,155,821	138,105	4,793
WAUNAKEE TELEPHONE COMPANY INC	969,357	383,780	200,404	65,803	99,237	749,225	220,132	4,833
WAYSIDE TELEPHONE COMPANY	295,322	148,749	80,971	19,938	1,465	251,123	44,199	1,844
WEST WISCONSIN TELEPHONE COOP, INC	981,676	484,897	325,771	70,483	0	881,151	100,524	4,953
WEYAUWEGA TELEPHONE COMPANY	758,424	352,983	195,678	52,106	29,866	630,634	127,790	4,549

TABLE 18 (CONTINUED)

UTILITY	OPERATING REVENUE	OPERATION AND MAINTENANCE	DEPN. AND AMORT.	TAXES OTHER THAN INCOME TAXES	INCOME TAXES	TOTAL OPERATING EXPENSE	NET OPERATING REVENUE	TOTAL STATIONS CLOSE OF YEAR
WISCONSIN TELEPHONE COMPANY	688,615,119	336,500,661	110,593,900	59,454,908	58,716,256	565,265,725	123,349,394	2,448,882
WITTENBERG TELEPHONE COMPANY	390,165	188,328	73,337	24,318	11,668	297,651	92,514	2,377
WOOD COUNTY TELEPHONE COMPANY	5,767,323	2,620,894	1,444,043	515,389	182,257	4,762,583	1,004,740	30,725
TOTAL	966,767,597	450,428,473	176,666,078	82,030,752	75,412,455	784,537,758	182,229,839	3,566,106

WATER UTILITIES

Comparative statistics of water utilities operating in Wisconsin during the period from 1980 through 1978 are presented in this section. Chart 17 shows a summary of the income account over a ten-year period. The coverage is summarized below:

Table 19 - Comparative Statement of Revenues and Expenses Wisconsin Water Utilities, 1980-1978

Table 20 - Operating and Plant Statistics, Wisconsin Water Utilities, 1980-1978.

Table 21 - Condensed summary of 1980 Operations, Individual Water Utilities

Chart 17 - Comparison of Revenues and Expenses, Wisconsin Water Utilities, 1971-1980.

Water Utility Revenues and Expenses

Chart 17 shows that revenues and expenses (with the exception of taxes) have advanced steadily over the past nine years. Taxes are up only 3% for the period while operation and maintenance expenses are up 123%, depreciation rose 85%, operating revenues rose 74% and net operating revenue increased 12%.

Revenues increased 6.1% and operating expenses were up 9.7% during 1980. Net operating revenue decreased 19.2%.

Operating and Plant Statistics

The total number of water customers served rose 1.1% in 1980 while gallons of water pumped were down 2.1%. Electric pumpage accounted for 94.2% of the total and the remainder was by other means. Total miles of main increased 1.9%.

Data on Individual Utilities

Table 21 shows selected data on each Class A and B water utility, all but three of which are municipally owned. The table also shows totals for the smaller utilities. Municipal utilities accounted for 96.4% of the total operating revenue and served 97.0% of the customers. Superior, served by Superior Water, Light, and Power Company, and Beloit and Ripon served by Wisconsin Power and Light Company, were the largest cities served by private utilities.

CHART 17
WISCONSIN WATER UTILITIES REVENUES AND EXPENSES

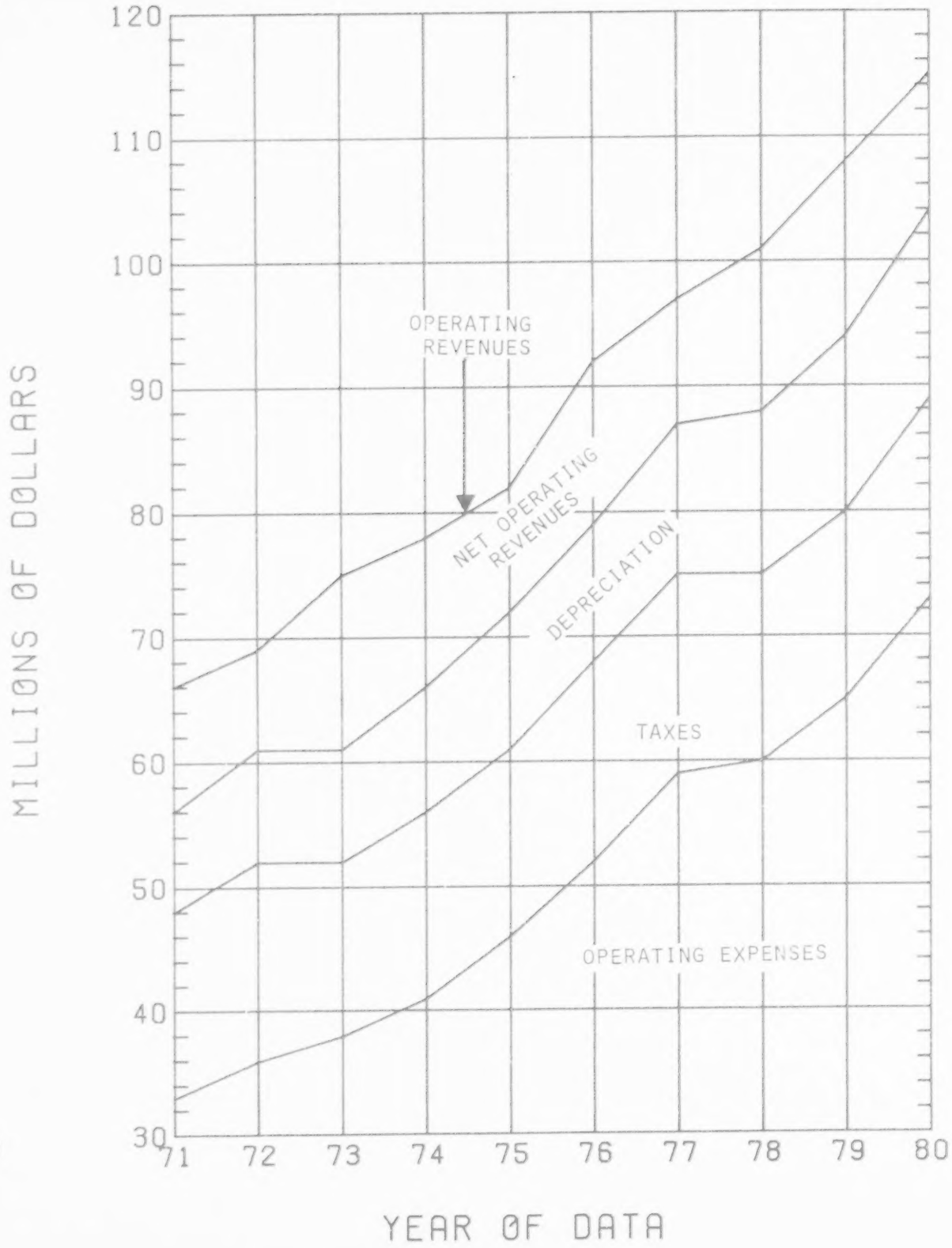


TABLE 19

COMPARATIVE STATEMENT OF REVENUES AND EXPENSES
WISCONSIN WATER UTILITIES
1980-1978

	1980	1979	1978
All Water Utilities			
Operating Revenues			
Sales to General Consumers	$ 83,085,455	$ 78,615,360	$ 73,983,768
Interdepartmental Sales	67,684	62,086	72,650
Sales to Other Water Utilities	3,226,943	3,188,704	2,993,656
Fire Protection and Other Municipal Sales	25,914,631	23,968,641	22,469,917
Total Sales of Water	$112,294,713	$105,834,791	$ 99,519,991
Miscellaneous Operating Revenues	1,898,737	1,836,833	1,494,663
Total Operating Revenues	$114,193,450	$107,671,624	$101,014,654
Operating Expenses			
Source of Water Supply (Excluding Purchases)	$ 1,084,458	$ 890,219	$ 941,194
Water Purchases	3,786,508	3,666,573	3,485,928
Pumping Expenses	18,301,855	16,074,485	14,488,061
Purification	10,278,810	9,377,686	8,279,916
Total Production Expense	$ 33,451,631	$ 30,008,963	$ 27,195,099
Transmission and Distribution	18,415,705	16,675,448	15,028,839
Customer Accounts	5,096,049	4,688,794	4,509,002
Sales	14,143	11,210	853
Administrative and General Expenses	15,765,632	13,971,965	13,044,186
Total Operation and Maintenance Expense	$ 72,743,160	$ 65,356,380	$ 59,777,979
Depreciation and Amortization	14,698,339	13,924,258	13,065,901
Taxes Other than Income Taxes	15,568,767	14,617,493	15,076,541
Income Taxes	123,135	87,021	132,028
Total Operating Expenses	$103,133,401	$ 93,985,152	$ 88,052,449
Net Operating Revenues	$ 11,060,049	$ 13,686,472	$ 12,962,205

TABLE 19 (Concluded)

COMPARATIVE STATEMENT OF REVENUES AND EXPENSES
WISCONSIN WATER UTILITIES
1980-1978

	1980	1979	1978
Private Water Utilities			
Total Operating Revenues	$ 4,101,890	$ 3,585,103	$ 3,355,532
Operation and Maintenance	$ 2,626,573	$ 2,285,044	$ 1,938,529
Depreciation and Amortization	367,850	345,281	312,896
Taxes Other than Income Taxes	317,580	325,431	329,105
Income Taxes	123,135	87,021	132,028
Total Operating Expenses	$ 3,435,138	$ 3,042,777	$ 2,712,558
Net Operating Revenues	$ 666,752	$ 542,326	$ 642,974
Municipal Utilities			
Total Operating Revenues	$110,091,560	$104,086,521	$ 97,659,122
Operation and Maintenance	$ 70,116,587	$ 63,071,336	$ 57,839,45[illegible]
Depreciation and Amortization	14,330,489	13,578,977	12,753,005
Taxes Other than Income Taxes	15,251,187	14,292,062	14,747,436
Total Operating Expenses	$ 99,698,263	$ 90,942,375	$ 85,339,891
Net Operating Revenues	$ 10,393,297	$ 13,144,146	$ 12,319,231

TABLE 20

OPERATING AND PLANT STATISTICS
WISCONSIN WATER UTILITIES
1980-1978

	1980	1979	1978
Average Number of Customers			
Residential	827,896	824,082	815,684
Commercial	84,537	78,372	73,037
Industrial	7,330	7,125	7,091
Total	919,763	909,579	895,812
Private Utilities	27,290	27,112	27,194
Municipal Utilities	892,473	882,467	868,618
Total	919,763	909,579	895,812
Gallons of Water Pumped Into Distribution System (000 Omitted)			
Electric	191,353,479	207,405,924	195,390,768
Hydro	4,370	0	0
Internal Combustion	0	8,650	27,886
Purchased	11,687,931	0	0
Steam	1,375	0	0
Total	203,047,155	207,414,574	195,418,654
Private Utilities	5,088,672	5,217,522	5,063,173
Municipal Utilities	197,958,483	202,197,052	190,355,481
Total	203,047,155	207,414,574	195,418,654
Miles of Distribution Main on December 31			
Private Utilities	368	366	370
Municipal Utilities	13,197	12,945	12,278
Total	13,565	13,311	12,648

TABLE 21

CONDENSED SUMMARY OF 1980 OPERATIONS
INDIVIDUAL WATER UTILITIES

Utilities	Operating Revenues	Operation & Maintenance	Depreciation & Amortization	Taxes Other Than Income Taxes	Income Taxes	Total Operating Expenses	Net Operating Revenues	Average Number of Customers 1/
Private Utilities								
Class A & B								
Lake Superior District Power Co. (LSDP)	$ 79,304	$ 49,900	$ 6,244	$ 5,416	$ 3,200	$ 64,860	$ 14,444	375
Superior Water, Light & Power Co. (SWLP)	1,465,795	1,067,572	91,170	123,234	(24,380)	1,257,596	208,199	9,584
Wisconsin Power & Light Co. (WPL)	2,360,711	1,380,849	239,283	174,808	141,394	1,936,334	424,377	15,726
Subtotal	$ 3,905,810	$ 2,498,321	$ 336,797	$ 303,458	$ 120,214	$ 3,258,790	$ 647,020	25,685
12 Class D Water Utilities 2/	196,080	$ 128,252	$ 31,053	$ 14,122	$ 2,921	$ 176,348	$ 19,732	1,839
Total Private Utilities	$ 4,101,890	$ 2,626,573	$ 367,850	$ 317,580	$ 123,135	$ 3,435,138	$ 666,752	27,524
Municipal Utilities								
Class A								
Appleton	$ 2,292,194	$ 1,708,681	$ 232,146	$ 255,331	$ 0	$ 2,196,158	$ 96,036	19,428
Cudahy	949,133	550,732	124,186	131,442	0	806,360	142,773	5,125
Eau Claire	1,808,188	1,069,187	258,897	268,390	0	1,596,474	211,714	15,821
Fond du Lac	960,186	678,815	93,810	122,679	0	895,304	64,882	12,005
Glendale	792,020	430,302	109,920	80,561	0	620,783	171,237	4,352
Green Bay	3,195,583	1,628,181	380,651	321,602	0	2,330,434	865,149	28,417
Janesville	808,392	671,239	94,176	130,317	0	895,732	(87,340)	16,494
Kaukauna	400,996	285,259	66,088	64,994	0	416,341	(15,345)	3,732
Kenosha	2,803,834	1,775,540	341,192	365,693	0	2,482,425	321,409	22,940
La Crosse	1,273,483	964,582	151,726	154,047	0	1,270,355	3,128	14,651
Madison	4,857,502	3,194,316	509,664	699,268	0	4,403,248	454,254	44,453
Manitowoc	1,484,885	769,788	174,572	175,929	0	1,120,289	364,596	10,828
Marinette	708,392	411,278	81,098	91,536	0	583,912	124,480	4,442
Marshfield	597,237	327,118	61,343	67,803	0	456,264	140,973	5,741
Milwaukee	23,497,426	15,655,237	2,510,752	3,581,665	0	21,747,654	1,749,772	157,936
Neenah	1,065,227	640,275	120,069	132,936	0	893,280	171,947	7,799
Oshkosh	1,571,953	996,851	234,970	185,470	0	1,417,291	154,662	16,225
Racine	3,064,774	2,126,766	288,611	321,654	0	2,737,033	327,741	27,475
Sheboygan	1,295,942	916,748	152,574	174,045	0	1,243,367	52,575	16,106
South Milwaukee	599,092	586,084	61,729	87,374	0	735,187	(136,095)	5,798
Waukesha	2,399,626	1,568,702	274,266	244,091	0	2,087,059	312,567	12,442
Wausau	966,336	715,589	148,677	132,856	0	997,122	(30,786)	11,642
Wauwatosa	1,989,231	1,588,143	228,753	245,849	0	2,062,745	(73,514)	15,545
West Allis	2,294,159	1,883,670	195,007	304,109	0	2,382,786	(88,627)	19,075
Wisconsin Rapids	931,504	544,906	93,963	126,248	0	765,117	$ 166,387	6,604
Subtotal	$62,607,295	$41,687,991	$6,988,840	$8,485,589	0	$57,142,720	$5,464,575	505,076

TABLE 21 (Concluded)

CONDENSED SUMMARY OF 1980 OPERATIONS
INDIVIDUAL WATER UTILITIES

Utilities	Operating Revenues	Operation & Maintenance	Depreciation & Amortization	Taxes Other Than Income Taxes	Income Taxes	Total Operating Expenses	Net Operating Revenues	Average Number of Customers 1/
Municipal Utilities (Continued)								
Class B								
Allouez	$ 398,442	$ 264,164	$ 70,677	$ 56,547	$ 0	$ 391,388	$ 7,054	4,576
Ashland	404,827	287,742	32,906	49,670	0	370,318	34,509	2,841
Beaver Dam	534,168	384,312	51,665	59,331	0	495,308	38,860	5,178
Brown Deer	499,816	341,975	78,632	75,660	0	496,267	3,549	3,252
Cedarburg	289,436	176,816	34,571	40,310	0	251,697	37,739	2,621
Chippewa Falls	598,342	388,495	70,789	91,199	0	550,483	47,859	3,914
De Pere	372,415	282,405	54,144	53,886	0	390,435	(18,020)	4,348
Greendale	492,630	374,513	51,671	71,737	0	497,921	(5,291)	4,510
Menasha	984,643	710,251	76,386	97,722	0	884,359	100,284	4,828
Menasha, Twn. S.D.#4	549,530	460,219	99,943	0	0	560,162	(10,632)	3,589
Menomonee Falls	526,955	437,802	101,419	119,375	0	658,596	(131,641)	4,796
New London	187,257	106,388	22,771	28,601	0	157,760	29,497	2,188
Oak Creek	1,131,673	494,874	257,513	209,934	0	962,321	169,352	2,628
Oconomowoc	606,067	265,675	68,426	73,701	0	407,802	198,265	3,059
Platteville	407,940	238,055	70,516	63,107	0	371,678	36,262	2,509
Plymouth	254,957	181,270	19,567	26,448	0	227,285	27,672	2,104
Port Washington	501,474	322,340	63,157	82,969	0	468,466	33,008	2,673
River Falls	238,922	153,319	24,275	27,836	0	205,430	33,492	2,058
Shawano	208,905	134,727	34,588	35,997	0	205,312	3,593	2,802
Shorewood	386,228	367,155	14,954	20,779	0	402,888	(16,660)	3,550
Stevens Point	644,900	342,099	68,660	101,776	0	512,535	132,365	6,631
Sturgeon Bay	408,545	234,983	65,482	70,566	0	371,031	37,514	3,022
Sun Prairie	314,479	171,561	42,222	53,728	0	267,511	46,968	3,627
Two Rivers	524,573	359,178	60,048	67,162	0	486,388	38,185	4,576
Waterloo	60,433	34,056	7,394	8,620	0	50,070	10,363	1,034
Watertown	594,689	267,707	67,696	60,951	0	396,354	198,335	5,676
Waupaca	383,337	141,558	44,918	39,176	0	225,652	157,685	1,804
Waupun	341,154	245,707	41,818	32,747	0	320,272	20,882	2,677
West Bend	565,145	347,431	102,453	106,135	0	556,019	9,126	6,011
Whitefish Bay	349,264	220,113	61,386	41,451	0	322,950	26,314	4,802
Subtotal	$13,761,146	$ 8,736,890	$ 1,860,647	$ 1,867,121	$ 0	$12,464,658	$ 1,296,488	107,884
Class C 115 Utilities	20,597,077	12,061,586	3,102,731	2,948,032	0	18,112,349	2,484,728	170,137
Class D 356 Utilities	13,126,042	7,630,120	2,378,271	1,970,145	0	11,978,536	1,147,506	120,796
Total Municipal Utilities	$110,091,560	$70,116,587	$14,330,489	$15,251,187	$ 0	$99,698,263	$10,393,297	903,893
Total All Utilities	$114,193,450	$72,743,160	$14,698,339	$15,568,767	$123,135	$103,133,401	$11,060,049	931,417

1/ Includes fire protection, public authorities, interdepartmental and other water utility customers.
2/ There were no Private Class C utilities in 1980.
() Denotes negative figure.

STEAM AND HOT WATER HEATING UTILITY SUMMARY

As shown in Table 22, steam and hot water heating utility operations in Wisconsin are not very extensive. Only three utilities rendered this service in 1980.

The Wisconsin Electric Power Company, operating in the city of Milwaukee, has by far the largest heating utility in the State, serving 561 customers at the close of 1980. Its net operating revenue for the year was $964,319.

Other communities in which heating service was supplied during the year included Waterloo, served by a municipal utility, and Rice Lake, served by Rice Lake Steam Corporation. Rice Lake showed a gain of $12,764 while Waterloo had a loss of $7,098 for 1980

TABLE 22

COMPARATIVE STATEMENT OF REVENUES, EXPENSES AND STATISTICS FOR WISCONSIN STEAM AND HOT WATER HEATING UTILITIES
1980-1978

	1980	1979	1978
Operating Revenues	$8,664,808	$8,995,665	$8,640,684
Operation and Maintenance	6,502,781	6,507,928	5,681,602
Depreciation	653,276	645,550	618,566
Taxes	538,766	1,108,563	1,146,449
Total Operating Expenses	$7,694,823	$8,262,041	$7,446,617
Net Operating Revenues	$ 969,985	$ 733,624	$1,194,067
Number of Customers	726	753	780